



HAMPDEN COUNTY REGISTRY OF DEEDS

DAMS FILE COLLECTION

BOOK D19

TOWN OF TOLLAND, MASSACHUSETTS



*Donald E. Ashe, Register
Hampden County Registry of Deeds,
a Division of the Office of
William Francis Galvin, Secretary of the Commonwealth*

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1951 Tolland

Dam located on Victory Lake. See also: County Roads Plan #8 (1952) "Wynbrook Dam".

City/Town	Tolland
Dam	Camp Spruce Hill Dam
Dam	Camp Wynbrooke Dam
Dam	Wynbrooke Camp Dam
Dam	Spruce Hill Dam
Name	Birnbaum, Silas J
Name	A R Z Corporation
Water	Victory Lake

JAMES L. TIGHE
PHILIP E. BOND

TELEPHONE
HOLYOKE 5525

TIGHE & BOND
CONSULTING ENGINEERS
189 HIGH STREET
HOLYOKE, MASSACHUSETTS

WATER SUPPLY
SEWERAGE
SEWAGE DISPOSAL
WATER POWER
DAMS

July 11, 1950

The Hon. The Board of County Commissioners
Hampden County Court House
Springfield, Mass.

Attention: Thomas F. Sullivan, Chairman

Gentlemen:

I have inspected the dam at Camp Wynbrooke in Tolland, Mass., owned by the A. R. Z. Corporation of Tolland, Mass., and find that the portion of the dam adjacent to the spillway section has settled considerably. Also the notch in the spillway wall has been obstructed by the installation of a plank. The obstructing of the spillway notch has caused the level of the pond to raise five inches or more, and this condition, together with the settlement of the earth and rockfill portion of the dam adjacent to the spillway, has resulted in a freeboard, at this low point, of only about six inches.

Past reports on investigations of this dam, together with computations of anticipated maximum flood flow, indicate that a freeboard of at least two feet should be provided at this dam.

The owner should immediately remove the plank which now blocks the notch in the overflow wall, and fill the entire length of the dam so that the top of the dam will be two feet above the crest of the spillway.

Respectfully submitted,

By


G. H. McDonnell

County Hydraulic Engineer

COPY

July 12, 1950

A. R. Z. Corporation
Tolland, Mass.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam has been inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him:

"In a recent inspection made of your dam, it was found that the portion of the dam adjacent to the spillway section has settled considerably. Also the notch in the spillway wall has been obstructed by the installation of a plank. The obstructing of the spillway notch has caused the level of the pond to raise five inches or more, and this condition, together with the settlement of the earth and rockfill portion of the dam adjacent to the spillway, has resulted in a freeboard, at this low point, of only about six inches. Past reports on investigations of this dam, together with computations of anticipated maximum flood flow, indicate that a freeboard of at least two feet should be provided at this dam. The owner should immediately remove the plank which now blocks the notch in the overflow wall, and fill the entire length of the dam so that the top of the dam will be two feet above the crest of the spillway."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Yours very truly,

COUNTY COMMISSIONERS

By _____
Chairman

June 20, 1951

A. R. Z. Corporation
Tolland, Mass.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam located at the site of your summer camp in Tolland has been recently inspected by our Engineer, and your attention is called to the following conditions noted and recommendations made by him:

"Recommendations pertaining to the increase of the freeboard of this dam, as made previously, have not been complied with. This dam should be drawn down and a 2-foot freeboard maintained at all times until the elevation of the top of the dam has been raised to at least 2 feet above the spillway level."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Very truly yours,

COUNTY COMMISSIONERS

By _____
Chairman

GIRLS

BOYS

Camp Wynbrooke

Tolland, Massachusetts
Telephone: New Boston 2297

September 24, 1951

Mr. George Macdonald
County Engineer
Hampden County,
Holyoke, Mass.

Dear Mr. Macdonald:

We recently received the following specifications from our contractors, Fragale and Andrighetti, Torrington, Conn. with regard to the corrections required by your office at the spill way on our camp property:

" We, Fragale and Andrighetti, agree to do the following work at Camp Wynbrooke in Tolland, Mass. :

Raise present spillways two (2) feet above present level with bank run gravel for a distance of 230 feet, 10 to 12 feet wide; rip rapp the shore side of the road with stone to prevent it from washing away; raise present bridge to new road elevation.


SIGNED Fragale and Andrighetti

Will you please advise as to whether the above proposed improvement will comply with your specifications?

Fragale and Andrighetti recently completed several contracting jobs for us and we have every confidence in their ability to handle this project.

Very truly yours,

CAMP WYNBROOKE - ARZ Corp.


Marvin Zolt, Treasurer

GIRLS

BOYS

Camp Wynbrooke

Tolland, Massachusetts
Telephone: New Boston 2297

October 16, 1951

Mr. G.H. McDonnell
c/o Tighe & Bond
189 High Street,
Holyoke, Mass.

Dear Mr. McDonnell:

We received your letter of October 3, 1951.


Please note in your records that the board has been removed from the spillway and the lake has been drawn down until such time as we can fully comply with your requirements.

We are forwarding a copy of your letter to our contractor so that we may take care of the details prior to repairing the dam.

Please send me a copy of Chapter 255 of the General Laws.

Very truly yours,

CAMP WYNBROOKE - ARZ Corp.


Marvin Zolt, Treasurer

Tolland

TIGHE & BOND

Consulting Engineers
189 High Street,
Holyoke, Mass.

c o p y

August 13, 1951

The Hon, Board of County Commissioners
Hampden County Court House
Springfield, Mass.

Attention: William F. Stapleton,
Chairman

Gentlemen:

On June 19, 1951 it was recommended that the freeboard of the dam of the A. R. Z. Corporation in Tolland be maintained at 2 feet, and that the pond should be drawn down to provide this 2-foot freeboard until the dam could be raised at least 2 feet above the spillway level.

The dam was reinspected on June 23, July 3 and August 12, 1951. On neither of these reinspection dates had there been any work done to raise the freeboard, nor had the pond been drawn down to maintain a greater freeboard.

The pond is located at Camp Wynbrooke and it is used for bathing and boating by the campers. I presume that the owners have refrained from drawing down the pond because a lower water level would provide a less desirable shore line. However, the undersigned feels that some concrete action should be taken by the owners, and that they should definitely state, in writing, when construction work can begin and the top of the dam raised. One of the camp owners has promised the undersigned that construction will begin in September. I believe it would be advisable for your Board to notify the A.R.Z. Corporation again of the need for raising their dam, and to instruct them to file plans and specifications of the proposed alterations within the present month, and to begin construction during the month of September at the latest.

Very truly yours,

G. H. McDonnell
County Hydraulic Engineer

August 15, 1951

A.R.Z. Corporation
Tolland, Massachusetts

Gentlemen:

Our Engineer has reinspected your dam located at Camp Wynbrooke in Tolland, and has reported to our Board that no concrete action has been taken to either lower the pond or raise the height of the dam in order to provide a 2-foot freeboard.

Prior to any alterations to your dam, it is necessary for you to file with our Board a petition requesting permission to make the necessary alterations, and with this petition should be sent, for our examination and filing, a copy of the plans and specifications. The fee for this filing is \$5.00.

It is essential that action be taken on your part to raise the freeboard of this dam, and it is requested that plans and specifications of the proposed work be filed within two weeks of the date of this letter and that actual construction work be started not later than September 15, 1951. Failure to comply with these recommendations will require action under Section 46 thru 48 of Chapter 253 of the General Laws, Tercentenary Edition to be taken.

Any information concerning this matter which you may desire will be furnished by this office upon request.

Very truly yours,

COUNTY COMMISSIONERS

William F. Stapleton
Chairman

Ralph P. Walsh

Francis M. O'Keefe Acting County
Commissioner

WATER SUPPLY
SEWERAGE
SEWAGE DISPOSAL
STRUCTURAL ENGINEERING

TIGHE & BOND
CONSULTING ENGINEERS
189 HIGH STREET
HOLYOKE, MASSACHUSETTS
TEL. 5525

DAMS & POWER INSTALLATIONS
HIGHWAYS & BRIDGES
HOUSING DEVELOPMENT
WASTE DISPOSAL

April 28, 1952

The Hon. The Board of County Commissioners
Hampden County Court House
Springfield, Massachusetts

Attn: William Stapleton, Chairman

Gentlemen:


At the time of my last inspection at the A.R.Z. Corporation Dam in Tolland on April 23, 1952, the owner had not started the work of raising his dam to provide for the two feet of freeboard as outlined in your letter to him of June 20, 1951 and as promised by Marvin Zolt, treasurer of the Corporation, in his letters to the undersigned of September 24, 1951, October 16, 1951, and March 23, 1952. (copies enclosed)

In spite of statements made in the letter of October 16, 1951, the undersigned found the pond full and the flashboard back in place on the visit of April 23, 1952.

I contacted Mr. Allen Clark of Tolland this same day, the gentleman spoken of in Mr. Zolt's letter of March 23, 1952, and he told me that he still does not have authorization from Mr. Zolt to start the work.

Since the Camp will be opening about July 1, 1952, it would be my recommendation that your honorable Board send the A.R.Z. Corporation a second notice to draw down the pond immediately and to keep it drawn down until the dam is raised or action would be taken under Sections 46 and 47 of Chapter 253 of the General Laws.

Very truly yours,


G. H. McDonnell
County Hydraulic Engineer

GIRLS

BOYS

Camp Wynbrooke

Tolland, Massachusetts
Telephone: New Boston 2297

March 23, 1952

Mr. G. H. McDonnell
County Hydraulic Engineer
c/o Tighe and Bond
189 High Street,
Holyoke, Massachusetts

Dear Mr. Mc Donnell:

We received your letter of March 21, 1952 with regard to the proposed addition to the dam at the A.R.Z. Corporation property in Tolland, Mass.

We have consulted with Mr. Allan Clark, the Town of Tolland Road Supervisor, with regard to an estimate and plans for the proposed addition. We left word with him that he should determine from you exactly what is required so that we might comply with the county regulations.

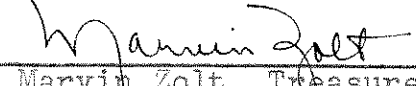
To date we have not heard from him and we presume that you and Mr. Allan Clark have not been able to go over those details. May we ask that you contact Mr. Allan Clark and together with him work out an estimate on the work that must be done including the cost of preparation of the plans so as to completely comply with the county regulations?

Since the weather is still unpredictable, we would appreciate your cooperation in coordinating your trips of inspection in our area so that you might meet Mr. Allan Clark at a mutually convenient time.

Many thanks for your kind cooperation.

Very truly yours,

CAMP WYNBROOKE - ARZ Corp.


Marvin Zolt, Treasurer

TIGHE & BOND

April 4, 1952

Mr. Marvin Zolt
1 Skillman Avenue
Jersey City 6, N.J.

COPY

Dear Sir:

From your recent letter and telephone call I understand that you have engaged Mr. Allan Clark of Tolland to do the work of raising your dam. This is evidently a change from your plans as outlined in your letter of September 24, 1951.

Mr. Clark has had experience in the correct procedure for preparing plans and specifications, obtaining County approval and carrying the work on to completion.

Since it is to your interest to properly complete the project prior to the date when you will be re-opening the camp, I would suggest you urge your designer and contractor to proceed with the design and specification work without delay. If he will contact me, by phone or letter, when he is ready to prepare the plans and specifications, I will gladly cooperate with him in every way possible.

Very truly yours,
Tighe & Bond

COPY

George H. McDonnell
County Hydraulic Engineer

GIRLS

5-2/
BOYS

Camp Wynbrooke

Tolland, Massachusetts
Telephone: New Boston 2297

May 15, 1952

Board of County Commissioners
County of Hampden
Springfield, Mass.

Gentlemen:

Your Registered Return Receipt letter addressed to me at my previous home address was delivered to me this morning.

Please be advised of the following:

- a. We have been in constant touch with Mr. McDonald, the County Hydraulic Engineer in an effort to comply with your suggestions with regard to the repair and alteration of the dam.
- b. The level of the pond at present is within the limits prescribed pending the completion of the proposed alterations.
- c. We have concluded arrangements with Mr. Allen Clark, Road Supervisor for the Town of Tolland, Mass. to file plans which are to be approved by your Hydraulic Engineer so that he may go ahead and complete the proposed alterations.

If there should be any further delay in this matter, we would like to be informed. According to the above facts the repairs and alterations should be completed within a few weeks.

Many thanks for your kind cooperation.

Sincerely yours,

ARZ Corp. - Camp Wynbrooke


Marvin Zolt, Treasurer

MURRAY ROTHMAN
71 FRANKLIN STREET
NEW YORK 13, N. Y.
CA 6-7369

MAC ALEXANDER
1501 METROPOLITAN AVE.
NEW YORK 62, N. Y.
UNDERHILL 3-8886

MARVIN ZOLT
ONE SKILLMAN AVENUE
JERSEY CITY 5, N. J.
JOURNAL SQ. 2-3318

Copy of this letter sent to George H. McDonnell,
County Hydraulic Engineer, on May 29, 1952.

May 7, 1952

A.R.Z. Corporation
1 Skillman Avenue
Jersey City 6, New Jersey

Attn: Marvin Zolt, Treasurer

Dear Sir:

The County Hydraulic Engineer has informed our Board that at the time of his last inspection on April 23, 1952, the work of raising your dam in Tolland, Mass., had not been started, the flashboard on the spillway was in place and the pond was full. To date no plan or specification of the proposed work has been filed for review or approval.

In accordance with the provisions of Chapter 253, Section 46 et seq of the General Laws, Tercentenary Edition, relative to the repairs and alterations to the dams of Hampden County, you are hereby directed to draw down your pond in Tolland and to keep it drawn down until such time as the dam is raised so that the freeboard of the dam is a minimum of two feet. Plans and specifications of the work to be done shall be filed in accordance with the Law. Failure to draw down the pond by May 15, 1952, shall constitute neglect on your part and proceedings under Section 47 of Chapter 253 of the General Laws shall be instituted.

BOARD OF COUNTY COMMISSIONERS

William F. Stapleton
Chairman

Thomas F. Sullivan

Ralph P. Walsh

Registered Mail
No. 17038

January 3, 1936

C-D

COPY

Mr. Silas J. Birnbaum
185 East 163rd St.
New York 51, N. Y.

Dear Sir:

At the request of the County Commissioners of Hampden County, Massachusetts, I am sending to you enclosed a copy of Chapter 253 of the General Laws of the Commonwealth of Massachusetts, showing those sections that have particular reference to the construction and maintenance of dams in Massachusetts.

If you have some particular problem that you wish to discuss or if you wish information not contained in the enclosed, kindly call or write the undersigned.

Very truly yours,

GHM/emm
enc.

George H. McDonnell
County Hydraulic Engineer

COPY

SILAS J. BIRNBAUM
185 EAST 163RD ST.
NEW YORK 51, N. Y.

Nov.19,1955

County Engineer
Hampden County Commission
Springfield, Mass.

Dear Sir;

I have recently purchased the site occupied by Camp Wynbrooke in Tolland, Mass. I am anxious to learn about the geography of the region. I plan to reorganize the camp and have renamed^{which} it Camp Spruce Hill. If you have any booklet or brochure will tell about the climatic conditions, the elevation, Temperatures, etc. I would appreciate ^{it as well as} a county map showing roads and neighboring communities.

There is a dam at one end of Victory Lake. This is not in good condition as a result of recent floods. Are there any provisions in the county or town for its repair? The road to the camp is being repaired by the town but there are a number of old roads which are in a state of disrepair. Can anything be done about them?

If your office has any rules, regulations or ordinances that apply to the operation of a children's camp, please send me a copy.

Very truly yours,

Silas J. Birnbaum
Silas J. Birnbaum

Camp Spruce Hill

December 8, 1955

George H. McDonnell,
County Hydraulic Engineer,
189 High Street,
Holyoke, Mass.

Dear Mr. McDonnell:

Will you please send the rules and regulations
relative to the maintenance of dams to:

Silas J. Birnbaum
185 East 163rd Street
New York 51, N. Y.

Very truly yours,

HAMPDEN COUNTY COMMISSIONERS

By _____

WATER SUPPLY

SEWERAGE

SEWAGE DISPOSAL

STRUCTURAL ENGINEERING

TIGHE & BOND, Inc.
CONSULTING ENGINEERS

189 HIGH STREET

HOLYOKE, MASSACHUSETTS

GEORGE H. McDONNELL

PHILIP W. SHERIDAN

January 3, 1956

DAMS & POWER INSTALLATIONS

HIGHWAYS & BRIDGES

HOUSING DEVELOPMENT

WASTE DISPOSAL
C-D

The Hon. the Board of County Commissioners
Hampden County Court House
Elm Street
Springfield, Mass.

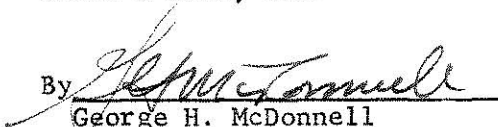
Gentlemen:

In accordance with your request, I have forwarded
to Mr. Silas J. Birnbaum a copy of Chapter 253 of the General
Laws. A copy of my letter of transmittal is contained herein.

Very truly yours,

TIGHE & BOND, INC.

By


George H. McDonnell
Chief Engineer

GHM/emm
enc.

Sept. 18, 1957

Camp Spruce Hill
Tolland, Mass.

Gentlemen:

An inspection of your dam at Victory Lake, at Camp Spruce Hill, in Tolland was recently made by our County Hydraulic Engineer and the condition of the dam reported to this Board. Based upon the report of our Engineer, it is directed that the wooden covering formerly over the spillway structure that has been removed should not be replaced as it originally existed. If this wooden spillway covering is to be replaced, the covering should be installed in such a manner that it will not restrict the overflow of flood waters into the spillway channel. Also, logs, wood and miscellaneous debris now situated in the spillway channel below the spillway crest should be removed.

Any further information desired in connection with this matter will be made available to you upon request.

Very truly yours

BOARD OF COUNTY COMMISSIONERS

By _____

Oct. 26, 1960

Camp Spruce Hill
Tolland, Mass.

Gentlemen:

In accordance with the provisions of Chapt. 253, Section 45, et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of dams of Hampden County, you are hereby advised that your dam, located at your Camp on Victory Lake in Tolland has been recently inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him.

"This dam was found to be satisfactory in its present condition. The embankment is well shaped and in proper condition. One board was noted in the spillway notch. This board is very low in height and does not result in the storage of a great deal of water. However, it would be advisable for the Owner to remove this board until after the Spring runoff. The extra storage in the pond made available by the removal of the one remaining board will aid in reducing the overflow from the dam in time of any heavy storm conditions.

The right abutment at the spillway, where the right wing-wall adjoins the bridge abutment should be examined from time to time by the Owner, to be sure that no leakage develops at this point. There is a short travel distance thru the earth embankment for seepage water and consequently this location could be a weak point in the dam. However, at the time of the last inspection, there was no evidence of seepage occurring and the masonry, though rough and somewhat poor, appeared stable and safe.

Any further information desired in connection with this matter will be made available to you upon request.

Very truly yours

BOARD OF COUNTY COMMISSIONERS

GEORGE H. McDONNELL
JOSEPH W. SHERIDAN
EDWARD J. BAYON

*TIGHE
& BOND*

CONSULTING ENGINEERS

CIVIL, SANITARY AND ELECTRICAL ENGINEERING
INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
March 18, 1969

Camp Spruce Hill
Tolland,
Massachusetts

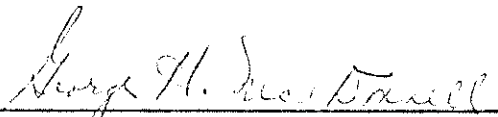
Gentlemen:

Reference is made to your dam in the Town of Tolland, and the fact that there now exists a heavy snow cover throughout Western Massachusetts. The water content of this snow cover, coupled with a warm spring rain could result in extremely heavy runoff conditions. Consequently, the Commissioners of Hampden County have directed that I advise you to be sure that the spillway facilities at your dam are clear of any obstruction and that you take all precautions necessary to protect your dam as well as persons and property downstream.

Any flashboards on the spillway should be removed and it would also be advisable to lower the water level in storage by slowly releasing water from the pond through drawdown facilities. The release of water should be at a controlled rate so as not to cause temporary flooding downstream.

If you have any question in connection with this matter, the undersigned can be reached at the above address and telephone number.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/amd



Commonwealth of Massachusetts

County of Hampden

Springfield, Mass.

Office of the
County Commissioners
52 State Street

William F. Stapleton
Chairman

~~XXXXXX~~

Floyd M. Fradet

Stephen A. Moynahan

October 1, 1969

Camp Spruce Hill
Victory Lake
Tolland, Massachusetts

Gentlemen:

In accordance with the provision of Chapter 253, Section 45, et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam at Victory Lake in Tolland has been recently inspected by our Engineer and his comments and report in connection with this dam are as follows:

'Camp Spruce Hill Dam (Victory Lake) The embankment at this dam is well shaped. It is hard and shows very little evidence of any surface erosion. Seepage at the toe is minor. There is some turf cover on the sloping surface of the dam embankment.

The concrete wall of the spillway is in satisfactory condition. A stoplog is in the spillway crest and this should be removed from the notch in the spillway until after the spring runoff.

The floor of the spillway and the upstream edges of the roadway bridge abutments which form part of the spillway channel, are in need of repair. Mass concrete should be placed at the washed-out areas of the floor and adjacent to the bridge abutments. Concrete should be worked into all voids so that, when completed, there is a well paved concrete channel to pass overflowing water from the toe of the spillway down thru and under the embankment bridge.

In the opinion of the undersigned, this dam will be safe if the spillway repairs as recommended are done at an early date.

The repair work was outlined to maintenance personnel at the site on the day of inspection. However, it is recommended that the owner be sent a letter-report on the condition of the dam advising him of the needed repair work."

Deeming Dams aka Zavatkay Dams



1926 Tolland

Located on Twining Brook & Trout Brook. See also: Lost Wilderness Ranch Dam.

Trout Brook

City/Town	Tolland
Dam	Deeming Dams
Dam	Lost Wilderness Ranch Dam
Dam	Zavatkay Dams
Name	Deeming, C E
Name	Deeming, Frank B
Name	Zavatkay, F F
Water	Twining Brook

Page 65 of report.

Frank B. Deeming,
New Boston, Mass.

you are notified that your ice
pond at Trout Pond dam, located on Trout Brook so
called in the Town of Tolland, etc.

"This structure is not in good
condition, and it is recommended that it
be repaired, especially the breach in its
downstream side at or near its center."

Now, therefore, etc.

Frank B. Deeming,

New Boston, Mass.

you are notified that your
strange ruinous dam, located on Tanning Brook as
called in the Town of Tolland, etc.

"The dam is not in very good
condition and the breaches in the downstream
face should be repaired by putting the
stone rock back in place. The debris
accumulated at or around the ^{to} spillway
to should be removed."

Now, therefore, etc.

February 24, 1926

Mr. Frank B. Deeming,
New Boston, Mass.

Dear Sir:

In accordance with the provisions of Section 45 of Chapter 253 of the General Laws as amended by Chapter 334 of the Acts of 1923 and as further amended by Chapter 178 of the Acts of 1924 relative to the inspection, condition and safety of the dams of Hampden County, you are notified that your storage reservoir dam, located on Twining Brook, so-called, in the Town of Tolland, has been inspected by our engineer and your attention is called to the following recommendations made by him;

"The dam is not in very good condition and the breaches in the downstream face should be repaired by putting the stonework back in place. The debris accumulated at or around the spillway toe should be removed."

Now, therefore, in accordance with Section 46 of said Chapter 253, it is ordered that the above recommendations be complied with in a reasonable time.

Yours very truly,

COUNTY COMMISSIONERS

By _____
Chairman.

May 24, 1933

Mrs. Frank B. Deeming,
New Boston, Mass.

Dear Madam:

In accordance with the provisions of Section 45 of Chapter 253 of the General Laws as amended by Chapter 334 of the Acts of 1923 and as further amended by Chapter 178 of the Acts of 1924 relative to the inspection, condition and safety of the dams of Hampden County, you are notified that your two dams, located on Twining and Trout Brooks, so called, in the Town of Tolland, have been inspected by our engineer and your attention is called to the following conditions noted and recommendations made by him;

Dam on Twining Brook - "The dry stone facing on the downstream side of the dam is loose and tumbling down in many places. If the pond is to be maintained this stone work should be rebuilt and the top of the dam raised to a height of two and one-half feet above the crest of the overflow."

Dam on Trout Brook - "Some of the stones in the downstream facing wall of the dam have fallen out of place. If the pond is to be maintained these stones should be reset and the overflow cleared of all the debris, etc. which has accumulated in it."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Yours very truly,

COUNTY COMMISSIONERS

By _____
Chairman.

This letter written in
Mr. Tighe's office.

September 30, 1935

Mrs. Frank B. Deeming
New Boston, Mass.

Dear Madam:

In accordance with the provisions of Section 45 of Chapter 253 of the General Laws as amended by Chapter 334 of the Acts of 1923 and as further amended by Chapter 178 of the Acts of 1924 relative to the inspection, condition and safety of the dams of Hampden County you are notified that your dam located on Twining Brook so called in the Town of Tolland had been inspected by our engineer and your attention is called to the following condition noted and recommendations made by him;

"While some repairs have been made on the dam at its south end other repairs are needed along the top of the embankment, which should be raised at least $2\frac{1}{2}$ feet above the crest of the spillway. The spillway, which is located at the north end of the dam, is in poor condition, inasmuch as its sides, which are built of wood, are in a bad state of decay and therefore should be replaced. In case the above repairs are not made on or before Dec. 1st. next the pond should be drawn down."

Now, therefore, in accordance with Section 46 of said Chapter 253, it is ordered that the above recommendations be complied with on or before Dec. 1st. of the present year.

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Yours truly,

COUNTY COMMISSIONERS,

By...Thos...J...Costello
Chairman

Chas. W. Bray
.....

Maurice G. Donahue
.....

August 7, 1940

Mr. F.P. Zavatkay
19 Rockwell Street
Winsted, Conn.

Dear Sir:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby notified that your dam on Twining Brook in Tolland has been inspected by our engineer and your attention is called to the following conditions noted and recommendations made by him;

"About 50 feet from its westerly end there was a small washout in this structure, which caused some of the stones in the downstream facing wall to become dislodged. These stones should be reset and the washout repaired."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Yours very truly,

COUNTY COMMISSIONERS

By _____
Chairman

November 10, 1948

Mr. C. E. Deeming
Tolland, Massachusetts
P. O. Address: New Boston, Mass.

Dear Sir:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam located on Twining Brook, so-called, in the Town of Tolland has been inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him:

"In a recent inspection made of the Old Deeming Dam now owned by C. E. Deeming located in Tolland, it was found that the spillway pipes are inadequate in size and the pipes partly blocked so as to interfere with the passage of water. Pipes should be cleaned out and an emergency overflow of the swale type built around the southerly end of the dam."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Yours very truly,

COUNTY COMMISSIONERS

William Dwight

Chairman

Thomas F. Sullivan

Cranberry Pond Dam aka Chamonix Chalet Properties Inc Dam



1962 Tolland

Also See Dam Report Section: Tolland. See also: County Roads Plan #11 (1965) "Dam & Reservoir, Cranberry Pond Brook".

City/Town	Tolland
Dam	Cranberry Pond Dam
Dam	Chamonix Chalet Properties Inc Dam
Name	Wildwood Properties
Name	Chamonix Chalet Properties, Inc
Name	Galanek, John T
Water	Cranberry Pond

SPEED LETTER®

TO BOARD OF COUNTY COMMISSIONERS
52 STATE ST.
Springfield, MASS
SUBJECT CRANBERRY POND DAM

FROM Chamonix Chalet Properties, Inc.
Box 173
Tolland, MASS.

MESSAGE

DATE Dec 13 1968

Gentlemen:

IN REGARD TO YOUR LETTER OF DEC 11, 1968 WE ARE
TAKING IMMEDIATE ACTION AND REMOVING THE PONTOON BOATS.

SIGNED

John T. Galanek, Pres.

REPLY

DATE _____ 19__

SIGNED _____

Grayline

SHAP-A-WAY™ FORM 44-902 3-PARTS

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GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
April 2, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

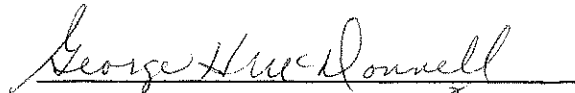
I have recently made an inspection of Cranberry Pond Dam owned by Chamonix Chalet Properties, Inc. and situated in the Town of Tolland. This is a new dam built recently and forms an enlarged pond around which Summer homes are being developed.

The last report relative to this dam was submitted on October 31, 1967, as a part of the overall report on the inspection of all dams in Tolland.

Conditions at the dam, when recently inspected, were satisfactory with a few exceptions. These are as follows:

- A. The bridge leading out to the drawdown gate operating stem is in poor condition, apparently the result of ice damage. The bridge has sagged at one location and is no longer properly supported. This bridge should be repaired immediately so that there will be access to the gate operating mechanism.
- B. Downstream of the dam embankment, on each side of the brook valley, surface runoff has caused erosion and gully formation. These gullies should be filled with stone.
- C. The top of the dam embankment should be checked for grade and, if any area of the embankment is below the grade of the construction drawings, additional material should be placed and compacted.

Respectfully submitted,


George H. McDonnell
County Hydraulic Engineer

GHM/mbf

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

TIGHE & BOND

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INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
September 3, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Re: Chamonix Chalet Properties, Inc. Dam

Gentlemen:

Reference is made to the above subject dam, also known as Cranberry Pond Dam. Since this is a relatively new dam, the undersigned has been making inspections from time to time when I have been in Tolland on matters relating to the Girl Scout Dam. On Friday, August 30, 1968, the undersigned made another inspection of the above subject dam and found conditions to be satisfactory.

While making the inspection I noted the presence of the sound of leaking water somewhere in the spillway conduit. In order to trace the sound it was necessary to crawl through the conduit up into the base of the shaft spillway to ascertain the location of the running water. I was concerned over the possibility that the water might be leaking through a joint in the conduit and that the leakage might be carrying soils with the flowing water. I discovered that the leak was nothing more than leakage around the draw-down gate valve at the end of the drawdown pipe extending out into the pond. Since no overflow of water was taking place over the crest of the vertical shaft spillway, the noise of the leaking water was quite loud and the lack of overflow allowed for the examination as described.

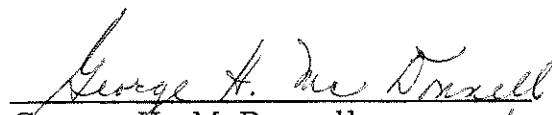
The toe of the dam embankment was in good condition and no seepage was noted. The undersigned did note that additional fill may be needed on the top of the embankment in the vicinity of the flood flow spillway.

TIGHE
& BOND CONSULTING ENGINEERS

-2-

The need for this fill is being pointed out to the owner again and a copy of our communication is attached hereto.

Respectfully submitted,


George H. McDonnell
County Hydraulic Engineer

GHM/amd
Encl.



Commonwealth of Massachusetts

County of Hampden

Springfield, Mass.

COPY

Office of the
County Commissioners
52 State Street

William F. Stapleton
Chairman

Ralph H. Walsh
Lloyd W. Fradet

December 11, 1968

Chamonix Chalet Properties, Inc.
Cranberry Pond Development
Tolland, Massachusetts

Attn: John T. Galanek, President

Gentlemen:

The County Hydraulic Engineer recently made an inspection of your dam in Tolland and has submitted a report to our Board relative to conditions noted there. The report of the County Hydraulic Engineer is as follows:

"An inspection of the Chamonix Chalet Properties, Inc. Dam, also known as Cranberry Pond Dam, was made on Thursday, December 5, 1968. Since this dam is relatively new, frequent inspections are being made during the first few years of its operation.

The inspection was made on the day following the very heavy rainfall of December 4th. All water was passing the dam by overflowing the vertical spillway shaft and passing thru the dam in the conduit. The discharge end of the conduit was flowing about one-third full. This condition was due in part to back-up of water in the brook downstream of the dam embankment.

The spillway facility appeared to be functioning satisfactorily. The downstream toe of the embankment was examined carefully and there was no evidence of seepage noted anywhere. A very small trickle of water was observed in the gully ditch along the toe of the dam on the left side of the valley. However, this was due to surface run-off resulting from the heavy rain of the previous day.

Nowhere on the face of the embankment was there any evidence of erosion or wear.

COPY

The two drainpipes from the embankment fill were inundated by the high water in the brook. Thus, they could not be observed for quantity of flow.

At the flood flow spillway entrance, a number of pontoon-type boats were noted to be stored. These were drawn up out of the water and blocked up on the forebay leading to the flood flow spillway crest. These boats should not be stored here. If the owner wishes to have them stored in the general area of the flood flow spillway, they should be moved to a point downstream of the crest of the flood flow spillway and far enough from the crest so as not to interfere with the passage of flood water. As they are now stored, it is possible that flood flows would shift them in the direction of the spillway crest. The flood water might carry them thru the spillway and cause no diversion of flood flow water to result in the dam embankment erosion. On the other hand, these boats might become grounded, tangled wreckage which could, under certain conditions, greatly reduce the flood flow spillway capacity.

It is recommended that the pontoon boats be moved and stored at some other location, preferably downstream of the dam, or if upstream of the dam, on ground at an elevation above possible flood level. "

You are directed to follow the advice relative to the storage of the pontoon boats.

Very truly yours,

BOARD OF COUNTY COMMISSIONERS

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

TIGHE & BOND CONSULTING ENGINEERS

CIVIL, SANITARY AND ELECTRICAL ENGINEERING
INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
April 12, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

Re: Cranberry Pond Dam
Tolland, Mass.

Reference is made to my report to your Honorable Board dated April 2, 1968 relative to conditions at the above subject dam when recently inspected.

In my report I pointed out that the bridge leading to the drawdown gate operating stem is in poor condition, that a surface wash gully has formed at the toe of the dam embankment on each side of the valley and the top of the embankment appeared as if it needed to have the grade adjusted to compensate for minor settlement.

I have received a telephone call from Mr. Galanek, one of the owners of the dam and he has advised me that they will immediately repair the gullies and take the necessary survey elevations along the top of the dam to determine whether or not any additional fill is needed. In regard to the bridge extending out to the operating gate, they are of the opinion that repairs to the bridge can best be made in the Fall when the pond can be emptied and new supports installed for the bridge. In the meantime, they plan to lower the bridge and support it upon floats. In this way it will be functional throughout the summer. I have advised Mr. Galanek to go ahead with this work.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/amd

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

TIGHE & BOND

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SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
September 3, 1968

Chamonix Chalet Properties, Inc.
Cranberry Pond Development
Tolland, Massachusetts

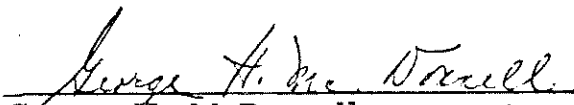
Attn: John T. Galanek, President

Gentlemen:

The undersigned made an inspection of the dam at your property in Tolland on Friday, August 30, 1968. Conditions at the dam were found to be satisfactory. However, I noted that the top of the embankment appears to be below the required elevation, particularly from about the vertical shaft spillway area over to the flood flow swale spillway. The top of the embankment immediately adjacent to the emergency spillway appears to be quite low in elevation.

I have recommended in the past, that a profile of the top of the dam be made and be compared with the designed elevation. If the top of the dam embankment is low, additional compacted material should be placed.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/amd

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
December 10, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Re: Chamonix Chalet Properties, Inc. Dam

Gentlemen:

Reference is made to the above subject dam, also known as Cranberry Pond Dam. An inspection of this dam was made on Thursday, December 5, 1968. Since this dam is relatively new, frequent inspections are being made during the first few years of its operation.

The inspection was made on the day following the very heavy rainfall of December 4th. All water was passing the dam by overflowing the vertical spillway shaft and passing thru the dam in the conduit. The discharge end of the conduit was flowing about one-third full. This condition was due in part to back-up of water in the brook downstream of the dam embankment.

The spillway facility appeared to be functioning satisfactorily. The downstream toe of the embankment was examined carefully and there was no evidence of seepage noted anywhere. A very small trickle of water was observed in the gully ditch along the toe of the dam on the left side of the valley. However, this was due to surface run-off resulting from the heavy rain of the previous day.

Nowhere on the face of the embankment was there any evidence of erosion or wear.

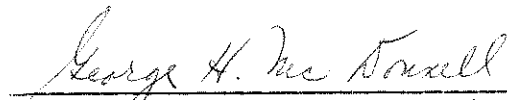
The two drainpipes from the embankment fill were inundated by the high water in the brook. Thus, they could not be observed for quantity of flow.

TIGHE
& BOND CONSULTING ENGINEERS

At the flood flow spillway entrance, a number of pontoon-type boats were noted to be stored. These were drawn up out of the water and blocked up on the forebay leading to the flood flow spillway crest. These boats should not be stored here. If the owner wishes to have them stored in the general area of the flood flow spillway, they should be moved to a point downstream of the crest of the flood flow spillway and far enough from the crest so as not to interfere with the passage of flood water. As they are now stored it is possible that flood flows would shift them in the direction of the spillway crest. The flood water might carry them thru the spillway and cause no diversion of flood flow water to result in dam embankment erosion. On the other hand, these boats might become grounded, tangled wreckage which could, under certain conditions, greatly reduce the flood flow spillway capacity.

It is recommended that the pontoon boats be moved and stored at some other location, preferably downstream of the dam or, if upstream of the dam, on ground at an elevation above possible flood level.

Respectfully submitted,



George H. McDonnell h
County Hydraulic Engineer

GHM/amd

April 3, 1968

Chamonix Chalet Properties, Inc.
Tolland, Massachusetts

Gentlemen:

The County Hydraulic Engineer has notified our Board that he has recently made an inspection of your dam at Cranberry Pond in Tolland. His inspection report as filed with our Board is as follows:

- "A. The bridge leading out to the drawdown gate operating stem is in poor condition, apparently the result of ice damage. The bridge has sagged at one location and is no longer properly supported. This bridge should be repaired immediately so that there will be access to the gate operating mechanism.
- B. Downstream of the dam embankment, on each side of the brook valley, surface runoff has caused erosion and gully formation. These gullies should be filled with stone.
- C. The top of the dam embankment should be checked for grade and, if any area of the embankment is below the grade of the construction drawings, additional material should be placed and compacted."

You are directed to take corrective action as outlined in the report of the County Hydraulic Engineer. This action should be taken immediately.

If you have any questions in connection with this matter, please call or write our Board.

Very truly yours,

BOARD OF COUNTY COMMISSIONERS

Handwritten:
Kearney Hotel
Greenery Room
Tollan

December 20, 1968

Mr. George H. McDonnell
Tighe & Bond
Holyoke, Mass. 01040

Dear Mr. McDonnell:

The attached is sent to you for your
information.

Very truly yours,

HAMPDEN COUNTY COMMISSIONERS

By _____
County Counsel

WJF:F

Enc.

May 8, 1968

Mr. George H. McDonnell
County Hydraulic Engineer
Tighe & Bond
Holyoke, Massachusetts 01040

Dear Mr. McDonnell:

Enclosed find copy of a letter received
from the Board of Selectmen of the Town of Tolland.

It would be appreciated if you would reply
to this.

Very truly yours,

HAMPDEN COUNTY COMMISSIONERS

By _____
County Counsel.

WJF:F

Enc.

TIGHE & BOND

CONSULTING ENGINEERS

CIVIL, SANITARY AND ELECTRICAL ENGINEERING
INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PECQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
March 18, 1969

Chamonix Chalet Properties, Inc.
Cranberry Pond Development
Tolland, Massachusetts

Attn: John T. Galanek, President

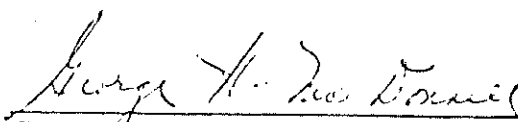
Gentlemen:

Reference is made to your dam in the Town of Tolland, and the fact that there now exists a heavy snow cover throughout Western Massachusetts. The water content of this snow cover, coupled with a warm spring rain could result in extremely heavy runoff conditions. Consequently, the Commissioners of Hampden County have directed that I advise you to be sure that the spillway facilities at your dam are clear of any obstruction and that you take all precautions necessary to protect your dam as well as persons and property downstream.

Spillway facilities should be checked to be certain that there is no debris present which can interfere with the operation of the vertical shaft spillway or the emergency flood flow spillway at the right end of the dam. Frequent inspections should be made at the dam, particularly at the spillway facilities and along the downstream toe area. Any unusual condition or seepage should be reported to the undersigned immediately and water in storage should be lowered under controlled conditions.

If you have any question in connection with this matter, the undersigned can be reached at the above address and telephone number.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

Wards Pond Dam aka Girl Scout Dam



1962 Tolland

Dam located in Tolland - forms Wards Pond. See also: County Highways (Tolland) - "Alterations & Repairs to Dam owned by WH & RP Ward..." - ch10052 & ch11032. See also: County Roads Plan #12 (1967) "Wards Pond Dam - Conn Valley Girl Scouts".

City/Town	Tolland
Dam	Wards Pond Dam
Dam	Girl Scout Dam
Name	Connecticut Valley Girl Scouts
Water	Wards Pond

CD-Tolland
November 12, 1965

Mr. M. B. Tasker
Brickyard Road
Farmington, Connecticut

Dear Sir:

The following lists the work to be done at the Girl Scout dam situated at Ward's Pond in Tolland, Massachusetts as per our recent conference at the dam site.

- A. Stop logs in the spillway will be removed each fall and kept out of the spillway until after spring heavy run-off conditions. Stop logs need only be removed to the elevation of the floor of the side masonry spillway sections.
- B. The earth embankment sections of the dam are to be raised at least one foot and, if possible, as much as 18". In raising the embankment sections, particularly, the embankment to the left of the spillway structure, the new embankment fill will extend beyond the dilapidated down stream dry stone masonry wall. Earth used to raise the embankment shall be thoroughly compacted in horizontal layers with the more impervious material placed along the center of the embankment. Impervious material of a gravel like nature to be placed on the down stream or dry side of the fill.
- C. All tree growth, brush and weeds are to be cut from both earth embankment sections and from the area immediately down stream of the dam.

In the near future the concrete masonry spillway side walls should be raised about 1-1/2 feet and these walls should be extended with wings back into each embankment section for at least 8 feet horizontally on the water side of the dam. This

CD-Tolland

November 12, 1965

- 2 -

construction will greatly increase spillway capacity, will make the dam safer and will prevent surface erosion with related annual maintenance work. The raising of the spillway side walls should be planned for 1967 or 1968 at the latest.

Very truly yours,

George H. McDonnell
County Hydraulic Engineer

GHM:es

CD # 455
1967

CD Tolland
August 7, 1967

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

In accordance with your letter of July 28, 1967, I have examined a set of drawings and specifications showing the proposed reconstruction of the dam on Ward's Pond in Tolland and owned by the Connecticut Valley Girl Scout Camp of Tolland, Inc.

The drawings examined are two in number and are dated July 11, 1967. Drawing #PD-1 is a general plan of the proposed construction, while Drawing #PD-2 shows details and sections of the proposed dam. Specifications are entitled "Specifications for New Dam for Ward's Pond, Tolland Campsite, Connecticut Valley Girl Scout Council Resident Camp" and are dated July 11, 1967.

As a result of my review of the plans and specifications, I recommend the following changes and additions.

- A. The 12" corrugated metal pipe extending through the dam embankment should have tight joints, particularly in the section from the intake in the pond to the control box at about the center of the dam. Though this portion of the 12" corrugated pipe will rarely be under conditions of differential pressure, there is always the possibility that the drain intake can become plugged and upon removal of stoplogs in the control box, the pressure outside the pipe could become greater than the pressure inside the pipe. If joints are not tight, leakage could take place from the voids of the dam embankment fill and possibly cause movement of soil particles into the pipe with a cavity resulting in the embankment.

- B. The outlet from the 20 ft. diameter pool at the discharge end of the 12" corrugated pipe through the dam is a V-notch weir having a maximum operating height of 18". The capacity of this weir could be exceeded under certain conditions of dam operation and thus in constructing the pool, consideration should be given to the prevention of soil erosion around the outside of the pool should this unit overflow.
- C. At the 12 ft. wide spillway situated near the left end of the dam, the drawings call for riprap on the slopes of the discharge channel. No indication is given as to the treatment of the floor or bottom of the channel, particularly in the vicinity of the end of the spillway. Erosion will take place at the discharge end of the spillway and, in accordance with the section on Drawing #PD-2, there is no erosion protection provided. Erosion protection for the bottom of the spillway discharge channel should be included in the plans.
- D. Sections of the dam indicate that the sheet piling will be driven along the upstream edge of the top of the dam embankment. In the vicinity of the 12" tube through the embankment, the bottom of the sheet piling will be at an elevation above the invert of this drain pipe and probably at about the top of the drain pipe. The drawings provide no evidence of seepage fins or facilities to prevent seepage of water along the outside of this tube other than the concrete flow control box. Seepage should be prevented along the tube through the use of standard seepage control fins.
- E. Drawing #PD-2 shows the drop inlet to have a 30" dimension at the typical cross section detail. This would indicate that the frame and grate would be 30" square. In the specifications on Page 3 of the construction details, paragraph 8, entitled "Cast Iron Inlet Frame and Cover", the size of the opening is specified as 24"x24". The plans and specifications should be made to conform.
- F. The grate for the drop inlet is designated in the specifications as Flockhart Foundry Co., Code #33952. I do not have the specifications relative to this grate but it should have openings sufficiently large to pass small debris and at the same time have sufficient strength to withstand the head of water should the grate plug during drainage of the pond and a downward pressure develop on the grate.
- G. The flow control box is shown as a concrete structure without reinforcing. The bottom of the box is elevation 54.50 at the top of the floor whereas the top of the box is elevation 74. Thus, the structure is 19.5 ft. high. It should be properly reinforced with steel reinforcing bars.

H. From the sections and plan view of the dam, it would appear as if the sheeting will be about in line with the wall of the flow control box on the pond side of the box. The detail drawing of the flow control box on Drawing #PD-2, does not show how the sheeting will tie into the box or if it ties into the box at all. This should be indicated on the Drawing.

It is recommended that the Owner of the proposed dam be instructed to change the plans and specifications as set forth hereinabove.

Respectfully submitted,

George H. McDonnell
County Hydraulic Engineer

GHM/mbf

CD Tolland
October 4, 1967

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

I have received the copy of the communication from Jeter & Cook, Architects, dated August 11, 1967, relative to revisions and changes to the dam at Wards Pond on property of the Connecticut Valley Girl Scout Council in Tolland, Mass. I have reviewed the drawings and the recommendations contained in my letter-report to your Honorable Board of August 7, 1967.

I have reviewed the revised drawings entitled "Wards Pond Dam, Connecticut Valley Girl Scout Council, Resident Camp, Tolland, Massachusetts" and designated #PD-1 and PD-2. These drawings are dated July 11, 1967 with a revision date of August 11, 1967.

I find that the revised plans contain all the changes and improvements recommended in our report to your Honorable Board. The specifications as originally filed are satisfactory.

On the assumption that the dam will be built in accordance with the revised plans hereinbefore mentioned and in accordance with the specifications, all as filed with your Board, it is recommended that the filed revised plans and the specifications be approved and an Interlocutory Decree issued.

Respectfully submitted,

George H. McDonnell
County Hydraulic Engineer

GHM/mbf

CD Tolland
October 4, 1967

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

I have received the copy of the communication from Jeter & Cook, Architects, dated August 11, 1967, relative to revisions and changes to the dam at Wards Pond on property of the Connecticut Valley Girl Scout Council in Tolland, Mass. I have reviewed the drawings and the recommendations contained in my letter-report to your Honorable Board of August 7, 1967.

I have reviewed the revised drawings entitled "Wards Pond Dam, Connecticut Valley Girl Scout Council, Resident Camp, Tolland, Massachusetts" and designated #PD-1 and PD-2. These drawings are dated July 11, 1967 with a revision date of August 11, 1967.

I find that the revised plans contain all the changes and improvements recommended in our report to your Honorable Board. The specifications as originally filed are satisfactory.

On the assumption that the dam will be built in accordance with the revised plans hereinbefore mentioned and in accordance with the specifications, all as filed with your Board, it is recommended that the filed revised plans and the specifications be approved and an Interlocutory Decree issued.

Respectfully submitted,

George H. McDonnell
County Hydraulic Engineer

GHM/mbf

CD Tolland
April 2, 1968

Jeter & Cook Architects
799 Main Street
Hartford, Connecticut 06103

Re: Tolland Campsite,
Conn. Valley Girl Scout Council
Resident Camp,
Ward's Pond Dam

Gentlemen:

In reference to the above subject dam, the undersigned has not been advised of the construction schedule of the Contractor for the coming Spring months. Late last Fall, the undersigned was advised that certain phases of construction at and in the dam foundation and discharge tube would be taking place and that notification of the construction schedule would be given this office. Extreme cold weather developed shortly thereafter and, since we were never notified of further work at the dam, I assume that work was suspended for the Winter.

In accordance with the provisions of the General Laws relative to the construction and inspection of dams, kindly notify the undersigned or have the construction contractor notify the undersigned of the planned construction schedule for the coming Spring months.

No work is to be resumed at the dam until the undersigned makes a thorough inspection of the structure as existing and makes a determination of any Winter damage to the work as closed down late last Fall.

Very truly yours,

George H. McDonnell
County Hydraulic Engineer

GHM/mbf

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

***TIGHE
& BOND***

CONSULTING ENGINEERS

CIVIL, SANITARY AND ELECTRICAL ENGINEERING
INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
April 2, 1968


The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

Re: Girl Scout Dam
Ward's Pond

Enclosed herewith, please find a copy of a communication sent to the designer of the above subject dam relative to reactivation of construction in the coming Spring months. The contents of the letter are self-explanatory and the letter is for your files.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/mbf

enclosure

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

TIGHE & BOND CONSULTING ENGINEERS

CIVIL, SANITARY AND ELECTRICAL ENGINEERING
INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
April 22, 1968

Jeter & Cook, Architects
799 Main Street
Hartford, Connecticut 06103

Attn: S. Edward Jeter

Re: Girl Scout Dam
Ward's Pond
Tolland, Mass.

Gentlemen:

The undersigned made an inspection of the above subject dam on Wednesday, April 17, 1968 and found that construction has not as yet been initiated following winter conditions.

The contractor was not at the site of the work when I was there late in the afternoon. Two employees were present but there did not appear to be any work being carried on at that time.

I observed that the fill placed on the dam embankment appeared to be soft and there was evidence of insufficient compaction.

In the area of the original spillway where the tube through the embankment is to be placed, the undersigned noticed deposits of large boulders. It would be expected that the contractor will remove these and will properly bed the tube in suitable material which can be thoroughly compacted to minimize seepage along or under the tube.

The contractor should be advised that before the corrugated iron pipe is backfilled at all, the undersigned should be informed of the date of the installation of the pipe so that an inspection can be made after it has been put in place. I also wish to be informed of the schedule for construction of the flow control box to be certain that a watertight connection is obtained at the sheet piling.

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& BOND CONSULTING ENGINEERS**

Prior to pouring any concrete at the spillway I will want to make an examination of the form work and its relation to the steel sheeting.

Kindly forward copies of compaction reports showing compliance with the specification under Paragraph 3 entitled "fill".

I am sending this letter-report to you and request that a copy be turned over to the contractor.

Very truly yours,

George H. McDonnell
County Hydraulic Engineer

GHM/amd
Encl.

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

***TIGHE
& BOND***

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HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
April 22, 1968

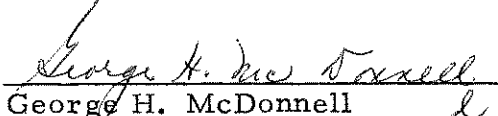
The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Re: Girl Scout Dam
Ward's Pond
Tolland, Mass.

Gentlemen:

Enclosed for your files please find a copy of a communication sent to the designer of the new Ward's Pond Dam in Tolland. The contents of the letter are self-explanatory.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/amd
Encl.

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
May 14, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Re: Girl Scout Dam
Ward's Pond
Tolland, Mass.

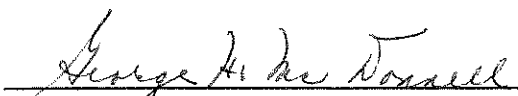
Gentlemen:

The undersigned met with the contractor and engineering representatives of the owner at the above subject site for the purpose of reviewing work to be done in re-activating construction at this dam. The undersigned advised all those present that all debris, large boulders, timbers and junk of every description must be removed from the embankment material, particularly in the area of the old spillway structure where the new conduit drawdown pipe is to be installed. Large stones and boulders could be used as toe fill for the downstream side of the embankment.

The contractor was directed to prepare for the installation of the 12" drawdown pipe and, if this pipe cannot be located upon sound impervious soil, it must be located upon a concrete cradle built in such a manner as to support the 12" pipe from beam stresses. The contractor was directed to do the clean-up work, prepare the excavation and then notify the undersigned so that an inspection of the pipe foundation could be made before the drawdown pipe is bedded and permanently installed.

I will keep your Board informed of progress in connection with the construction of this dam.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/amd

CD Tolland
May 17, 1968

Hammond Construction Company
Girl Scout Resident Camp
Tolland, Massachusetts

Gentlemen:

Enclosed for your files, please find a copy of a communication directed to Jeter & Cook, architects and designers of the Girl Scout Dam at Ward's Pond in Tolland, Mass.

In accordance with the provisions of Chapter 253 of the General Laws of the Commonwealth of Massachusetts and the procedures established by the County for the inspection and construction of dams, this communication has been sent to the firm responsible for the design and supervision of construction, with a copy to the County Commissioners of Hampden County.

The contents of the letter are self-explanatory.

Very truly yours,

George H. McDonnell
County Hydraulic Engineer

GHM/amd
Encl.

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
May 17, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Re: Girl Scout Dam
Ward's Pond
Tolland, Mass.

Gentlemen:

Enclosed herewith, please find a copy of a communication sent to Jeter & Cook of Hartford, Connecticut, architect and engineer on the design and supervision of construction of the above subject project. Also enclosed, is a letter of transmittal to the contractor forwarding a copy of my letter-report to the designer.

The contents of the letter to Jeter & Cook are self-explanatory.

I have discussed the matter of work quality with a representative of the designer and he assures me that steps will be taken to control operations so that the dam will be properly built.

The new dam is an enlargement of the old dam which has withstood many storms, including the hurricane flood of 1955. The continuous steel sheeting driven through the old dam and into the foundation of the old structure will contribute greatly to prevent seepage through the new dam. However, work being done in the old spillway location to install the new 12" conduit through the dam, has been of concern to me, as outlined in the letter to the designer. The steel sheeting which is continuous across the area in question will do much to make the structure watertight in spite of unsatisfactory construction process.

Since, with proper methods and a strict adherence to good construction practice can result in high quality work being done, I see no need for

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
May 17, 1968

Jeter & Cook, Architects
799 Main Street
Hartford, Connecticut 06103

Attn: S. Edward Jeter

Re: Girl Scout Dam
Ward's Pond
Tolland, Mass.

Gentlemen:

The undersigned made an inspection of the above subject dam on Thursday afternoon and early evening, May 16, 1968 at a time when the contractor was preparing to place the foundation for the flow control box structure. The contractor had excavated a hole directly in front of the sheet piling down to about the grade of the foundation as called for on Sheet 2 of the drawings. However, the excavation was very small in area, it was quite deep and very wet. Water was flowing into the excavation from seams of pervious material on the sides. These seams were small and apparently localized but provided a sufficient flow of ground water to keep the excavated foundation hole flooded.

The material being encountered was a gray till -type of material containing fine grains which might be classified as clay, and boulders. This material is very hard and tight when dry. It would form a good base for the flow control box if it had been kept dry.

The contractor had a small diaphragm-type pump on the job but the pump was either faulty, or incapable of handling the water involved.

The more the contractor worked in the area of the flooded foundation the softer the material became. Also, I was concerned over the fact that if he continued to dig and work in the flooded foundation, he would approach the lower end of the steel sheets and thus possibly ruin their effect as a barrier to the flow of stored water through the dam embankment.

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
May 24, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

On Wednesday, May 22, 1968, the undersigned made another inspection of the construction work being done at the site of the Girl Scout Camp on Ward's Pond in the Town of Tolland. The contractor was preparing to install the 12" drawdown and spillway pipeline from the steel sheeting upstream to the small intake box in the bottom of the lake. The area in which the contractor was working was fairly dry. He was preparing to encase the corrugated iron pipe in concrete. A joint was being made up on the corrugated iron pipe even though plans and descriptive material relative to the construction indicated a continuous pipeline in this area. The undersigned did not object to the joint in the pipe since the pipeline will be entirely encased in concrete. Thus, the joint will be watertight.

The undersigned warned the contractor that if he tried to pour the entire encasement in one pouring, he would probably find that the pipe would float in the wet concrete. He was advised that when he did the pouring, he should pour a cradle under the pipe first, allow this cradle to harden, and then complete the pour around the sides and top of the pipe.

The steel sheeting is in place and is toed in to the impervious foundation. The hole has been cut through the steel sheeting to allow passage of the 12" corrugated iron pipe. The contractor will be required to seal this hole tightly. In all probability, he will use the concrete of the encasement on the upstream side of the sheeting as a seal and the poured concrete walls of the overflow box control structure as a seal on the downstream side.

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-2-

The contractor has been advised that a washed stone drain placed in the excavation downstream of the sheeting and the overflow control box structure must be removed in part and replaced with good compacted soil. He has agreed to replace it with poured concrete. This will be suitable.

I am enclosing herewith for your files, a copy of the communication sent to the contractor directing him to notify the undersigned prior to any backfilling being done in the excavation along the concrete-encased 12" pipeline under the dam. The contents of the letter are self-explanatory.

Work of the contractor is going very slowly, and step-by-step review of his work is necessary to be certain that reasonably good construction is being carried on.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/amd
Encl.

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
May 24, 1968

Mr. Richard Hammond
Hammond Construction Company
23 Firglade Road
Worcester, Massachusetts

Re: Girl Scout Dam
Ward's Pond
Tolland, Mass.

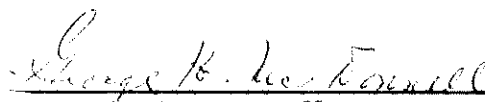
Dear Mr. Hammond:

Based upon conditions observed at the time of my last inspection of your construction work at the above subject dam on Wednesday afternoon, May 22, 1968, it is apparent that in the not too distant future, you will be starting the work of re-filling the excavation along the location of the concrete-encased 12" pipe which extends under and through the dam embankment. Before any compacted fill is placed in this excavation, it is necessary that I view the site and determine whether or not you are ready to begin placing and compacting soil. I will also want to observe the methods of placing and compacting soil and consequently, will plan to be at the site when you begin to place soil at and around the concrete-encased corrugated iron tube.

Please schedule your work in such a way as to be able to notify me at least 24 hours in advance of when you will be ready for this important and necessary inspection.

If I am not at the office when you call, please leave the message or a phone number where I may reach you. Under no conditions will the County accept the dam without the inspection and compaction observation as outlined hereinbefore.

Very truly yours,


George H. McDonnell
Engineer

GHM/amd

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
June 10, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

Re: Girl Scout Dam
Ward's Pond

Work at the above subject project is progressing very slowly as a result of the continuous wet weather. Since the time of my last report to your Honorable Board, I have made an additional inspection at the dam and have conferred by telephone with personnel in charge of construction on at least four or five occasions. Just this morning, Mr. Nolan called from the site of the work twice to discuss means for diverting the high rate of run-off through the construction area so that work of completing the dam can proceed in spite of the continued and frequent precipitation.

As of the most recent inspection on Wednesday, May 29th, no additional earth work had been done in the central section of the dam. The undersigned met with personnel of the contractor at the site to review the location where impervious material is to be placed and compacted. We also discussed a transition material consisting of from sand to gravel and then the placing of boulders at the downstream toe of the embankment. Samples of earth to be used in the embankment were picked up by a representative of the Soils Laboratory engaged by the firm of Jeter and Cook. From the information gained as a result of laboratory analyses of the samples, recommendations will be made as to the method for compacting the materials and the location where the materials should be placed in the embankment.

**TIGHE
& BOND CONSULTING ENGINEERS**

-2-

COPY

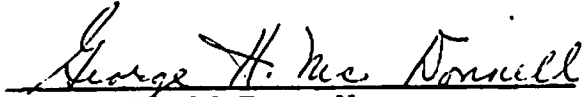
It has been the practice in the past, to withhold the granting of a final decree until one year after a dam has been completed and activated. During that year, the required minor maintenance can be accomplished and a good turf developed where necessary. Also, minor erosion matters and the formation of wash gullies can be controlled and corrected as needed.

I advised Jeter & Cook representatives at the inspection on August 30th, that the final decree would not be issued until some time in the summer of 1969 after I have had an opportunity to observe conditions at the new dam during and following winter cold weather, as well as spring wet weather conditions.

Since minor changes were made at the dam during construction and since the downstream aesthetic pool was eliminated in the interest of reducing construction costs, I instructed the designer to provide your Board with a revised drawing showing the structure as built. This drawing, if it properly shows the dam as built, should be filed with the approved drawings of the dam. Since the designer sent two of the revised plans, if they are duplicates, would you please send one to me for my review and file.

I will keep your Board informed of conditions at the dam as noted when inspections are made during the next 9 months.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/amd

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
July 24, 1968

Jeter & Cook, Architects
799 Main Street
Hartford, Connecticut 06103

Attn: Butler W. Andrus

Re: Girl Scout Dam
Tolland

Gentlemen:

The undersigned made another inspection of the above subject dam on the afternoon of Tuesday, July 23, 1968. At the time the inspection was made, Mr. Hammond was placing field stones and boulders as a lining for the discharge channel downstream of the concrete spillway located at the left end of the dam. This work was progressing satisfactorily.

I noted that the spillway channel had been dug and shaped all of the way to the brook course and that excavated material had been placed on the toe of the dam embankment, resulting in a flatter slope to the surface of the embankment over much of the lower portion. I also noted that this material appeared to be a fairly tight material and questioned the contractor on whether or not the addition of this material would act to seal in the embankment and prevent proper release of toe drainage. The downstream toe of an embankment must be of a pervious material which can drain in order that the embankment will not become saturated and then either slide or fail. I advised Mr. Hammond that the material could remain on the embankment but that observations must be made at the toe in the near future. After the dam has been fully loaded with a full pond of water for a period of time and the spillway has operated, test holes will be dug into the embankment at the toe area to determine whether the material is wet or dry. If the material shows excess moisture is being trapped in the embankment, then the added material placed along the toe must either be removed to release the water or a toe drainage system installed.

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
July 24, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

Re: Girl Scout Dam
Tolland, Mass.

Enclosed please find a copy of a communication sent to the firm in charge of constructing the above subject dam. The dam is in fairly good condition. Though certain work remains to be done as outlined in my letter to Mr. Butler Andrus, in my opinion, the dam is safe and can satisfactorily hold back the pond now formed when inspected on Tuesday, July 23, 1968. Water level in storage was at the crest of the spillway and a thin sheet was overflowing. Water level has been more or less at full elevation since about the second week of July.

The undersigned will check the embankment again relative to packing good soil against the spillway wall. Also, observations will be made at the toe of the dam to be certain that the material is draining any water collected within the embankment.

A great deal of time has been spent by the undersigned during the fall of the past year and since late winter of this year on inspections of the work at the above subject dam. From time to time, unsatisfactory workmanship was observed and changes were directed so as to obtain a good and sound dam. Numerous reports and communications have been sent to your Board and to persons involved in the construction of this dam.

In my opinion, the dam is satisfactory though additional improvements are required and the toe area will need to be observed on occasion.

On examining the top of the embankment adjacent to the concrete spillway at the left of the dam, I noted loose earth filled in against the outside surface of the right hand concrete wall and also noted the presence of many stones and boulders of 4" to 6" and more in size. These boulders and large stones were directly against the concrete surface of the outer wall.

If this type of fill continues downward into the embankment for any distance whatsoever, in time of flood flow conditions leakage will occur along the face of the concrete. The leakage will follow the voids caused by the stones and boulders nested against the concrete.

Specifications for dam construction and good workmanship require fine grained soil of an impervious nature to be densely packed in thin layers against a concrete surface where there is a possibility of water travel along the concrete surface. From my observation of the top of the embankment, each and every good rule of construction against a concrete surface has been violated by the contractor.

I advised Mr. Hammond that if he is responsible for the type of embankment construction at this spillway wall he should immediately remove the improperly placed material and replace it with proper soil packed by hand and in thin layers. If the depth of the poorly placed soil extends down to the bottom of the spillway wall, then the pond elevation should be drawn down at least 2 feet while the embankment is dug out and material properly placed.

I also advised Mr. Hammond that if test holes dug and samples obtained from this general area indicate poor construction, the County will probably require the addition of a concrete cut-off wall running along the centerline of the embankment and connected with a watertight connection to the spillway side wall. This concrete cut-off wall would probably extend into the embankment for a length of 5 feet more or less and would have a vertical height extending from the top of the existing concrete of the spillway wall down to the floor of the spillway. An alternate would be to position the wall in such a manner as to be able to tie it in with the top of the steel sheeting.

It is strongly recommended that your personnel at the dam properly place the soil against the embankment faces of the spillway structure.

The original and approved drawings for the construction of the dam provided for a pool at the end of the 12" discharge pipeline extending thru

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the dam from the flow control box. This pool was to have been of concrete construction with stone masonry facing. The pool has been eliminated from the project and two revised sets of drawings should be filed with the County. I note that the location and elevation of the discharge pipe as now existing is in an excavation below the natural ground elevation and the bed of the brook. This will result in the formation of a pool of water at the toe of the dam which, under certain conditions, may be detrimental to the toe area of the dam. If the entire pool is to be lined with stone and an outlet excavated to keep the pool water surface to a minimum elevation, there will probably be no problem as a result of the low discharge pipeline. Any lowering of the brook bed to reduce the size of the pool of water which will form must naturally be controlled by downstream conditions.

I will make another inspection of the dam within a week or two and hope to find the structure in good condition and the work about completed.

Very truly yours,

George H. McDonnell
George H. McDonnell
County Hydraulic Engineer

GHM/amd

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
July 26, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

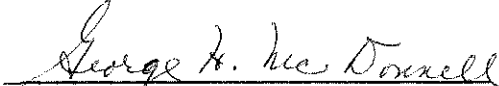
Re: Girl Scout Dam
Tolland, Mass.

In regard to the compaction of soil in the embankment at the above subject dam, tests were conducted to determine the compaction and density of the soil at five locations chosen at different points in the embankment. The results of the laboratory analysis indicate that the field dry density of the soil varied from 124 pcf to 128 pcf, while the percent of compaction varied from 95.2 to 98.3.

The original specifications for the project called for 85% compaction. The undersigned noted this on the drawings and requested the contractor and construction inspector to obtain at least 90% compaction. The request has been complied with since compaction exceeds 95% in each of the five samples.

This information is submitted to you for record purposes.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/amd

**TIGHE
& BOND CONSULTING ENGINEERS**

When erosion by the small waves becomes serious enough to require attention, broken stone will be dumped along the shoreline to prevent further erosion and to result in stabilization of the embankment slope surface.

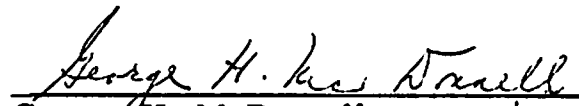
A revised drawing will be filed with the County showing the dam as constructed and the elimination of the small pool structure at the downstream end of the corrugated metal pipe spillway tube.

The concrete spillway together with the paved channel downstream of the concrete structure are in good condition.

The undersigned appreciates the cooperation given by your personnel in connection with the construction of the dam. Inspections will be made from time to time and any necessary maintenance noted by the undersigned will be called to your attention.

A final inspection for acceptance purposes will be made during the summer of 1969. By that time a good growth of turf should exist on the surface of the embankment and any necessary erosion control work will have been completed.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/amd
cc - Board of County Commissioners

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

**TIGHE
& BOND**

CONSULTING ENGINEERS

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BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
September 3, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

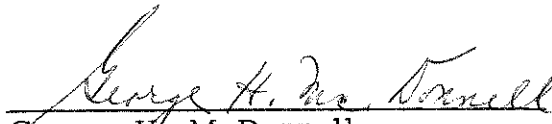
Re: Girl Scout Dam
Tolland, Mass.

Enclosed for your information and file please find a copy of a communication sent to Jeter & Cook, Architects relative to the above subject dam. The contents of the letter are self-explanatory.

In the opinion of the undersigned, this new dam is in good condition. During the construction phase many inspections were required because of wet foundation conditions. These problems were further complicated by the extreme and continuous wet weather experienced this spring and through the month of June.

The undersigned notified representatives of Jeter & Cook that no formal action will be recommended to your Honorable Board for acceptance of the new dam until the structure has gone through one full year of operation and a good growth of grass is developed on the embankment.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/amd
Encl.

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

TIGHE & BOND

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BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
September 3, 1968

Jeter & Cook, Architects
799 Main Street
Hartford, Connecticut

Attn: Mr. Butler W. Andrus

Re: Girl Scout Dam

Gentlemen:

This will confirm the matters discussed at the above subject dam during the inspection conducted on Friday morning, August 30, 1968. In general, the dam is in satisfactory condition. The entire embankment area should be seeded, fertilized and treated as necessary to develop a growth of grass. It is my understanding that this work will be done prior to mid-September.

Additional field stones and boulders should be placed at and below the toe of the dam from about the end of the existing paved spillway channel to the natural brook course. It will not be necessary to obtain and haul field stones and boulders for this specific purpose. However, it was agreed that as boulders and field stones become available from work being carried on throughout the entire area, these stones and boulders will be hauled to the location as specified rather than be wasted in a surplus materials dump on the property. The field stones and boulders will be placed in such a manner as to prevent any flood flows from forming a deep gully adjacent to the toe of the embankment.

At the normal shoreline along the embankment there is evidence that the continual lapping of the small waves will wash out the fine grained soils of the embankment material and cause the formation of a ridge along the embankment. This ridge will eventually be undercut by wave action. No protective work need be done at this time, but it was agreed that the shore area would be observed frequently along the length of the embankment.

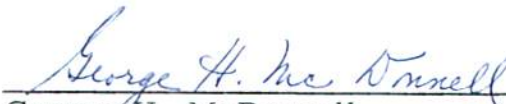
However, a gully was beginning to erode at the discharge end of the spillway channel and this erosion will work backward towards the spillway as each flood flow condition occurs.

The possible need for erosion control was discussed with representatives of the owner during an inspection on Friday, August 30, 1968. At that time, it was agreed that if boulders and fieldstones became available from work being carried on throughout the entire area, these stones and boulders would be hauled to the toe area of the embankment and would be placed in such a manner as to prevent any flood flows from forming a deep gully adjacent to the toe of the embankment.

The action of the spillway discharge in eroding the soil need not necessarily be completely controlled. It will be necessary to prevent the erosion from extending toward the toe of the embankment. This can be accomplished with boulders and fieldstones placed on a diverging line below the toe of the dam in such a way as to direct the water away from the toe itself. The natural action of the flowing water is beginning to create such a channel and the work now needed is to provide the channel lining to guide the discharged water and control any further erosion action.

It is recommended that a copy of this letter-report be sent to the representatives of the owner with a recommendation that the required erosion control work be accomplished no later than the spring of 1969.

Respectfully submitted,


George H. McDonnell
County Hydraulic Engineer

GHM/amd

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

COPY

CIVIL, SANITARY AND ELECTRICAL ENGINEERING
INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

TIGHE & BOND CONSULTING ENGINEERS

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
September 11, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Re: Girl Scout Camp New Dam
Tolland, Mass.

Gentlemen:

In regard to the above subject dam and to your letter of September 10, 1968, the undersigned has made an inspection of the dam for the purpose of determining whether all work has been completed in accordance with the approved plans and specifications. This inspection was made on Friday, August 30, 1968, and a report to Jeter & Cook was prepared and mailed to the designer on September 3, 1968. A copy of the letter to the designer was sent to your Honorable Board for file purposes.

In the opinion of the undersigned, a final decree should not be granted at the present time. As you will note in my report of September 3, though the dam has been completed and is functioning, minor work remains to be done. This work includes seeding, fertilizing and treating the surfaces of the embankment to develop a growth of grass. Also, additional field stones and boulders should be placed at and below the toe of the dam from about the end of the existing paved spillway channel to the natural brook course.

Along the normal shoreline, the continual lapping of small waves will wash out fine grained soils of the embankment material, and it was agreed by all present at the inspection on August 30th, that broken stone will be dumped along the shoreline to prevent further erosion should the action of the small lapping waves cause a condition serious enough to require attention.

COPY

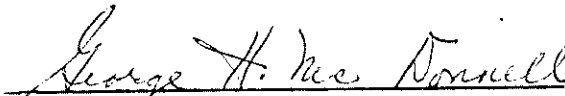
It has been the practice in the past, to withhold the granting of a final decree until one year after a dam has been completed and activated. During that year, the required minor maintenance can be accomplished and a good turf developed where necessary. Also, minor erosion matters and the formation of wash gullies can be controlled and corrected as needed.

I advised Jeter & Cook representatives at the inspection on August 30th, that the final decree would not be issued until some time in the summer of 1969 after I have had an opportunity to observe conditions at the new dam during and following winter cold weather, as well as spring wet weather conditions.

Since minor changes were made at the dam during construction and since the downstream aesthetic pool was eliminated in the interest of reducing construction costs, I instructed the designer to provide your Board with a revised drawing showing the structure as built. This drawing, if it properly shows the dam as built, should be filed with the approved drawings of the dam. Since the designer sent two of the revised plans, if they are duplicates, would you please send one to me for my review and file.

I will keep your Board informed of conditions at the dam as noted when inspections are made during the next 9 months.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/amd

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

TIGHE & BOND

CONSULTING ENGINEERS

CIVIL, SANITARY AND ELECTRICAL ENGINEERING
INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
December 10, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Re: Girl Scout Camp
New Dam
Tolland, Mass.

Gentlemen:

In regard to the above subject dam, the undersigned made an inspection of the dam on Thursday, December 5, 1968. In all probability, this will be the last inspection until the spring of 1969 since the access road leading to the dam will undoubtedly be impassable during the winter months.

The earth embankment of the dam was found to be in good condition. It does not have a growth of sod developing on the slopes. During the spring of 1969, the owner of the dam should begin the development of a good turf cover. The top of the embankment itself should also be seeded, fertilized and treated in such a way as to develop a good growth of grass.

On the day of inspection water was overflowing the main spillway at a depth of about 5 inches. On the day before, December 4th, a heavy rain had occurred and the resulting run-off was taking place at the time of the inspection.

Water overflowing the spillway was passing thru the structure in a satisfactory manner. The channel where stone paving has been laid down was resisting the erosion action of the water very well.

The flow from the spillway was following a course along the left toe of the embankment on a slightly diverging line. The discharged water was joining the old brook course at a suitable distance below the toe of the embankment.



Commonwealth of Massachusetts

County of Hampden

Springfield, Mass.

COPY

Office of the
County Commissioners
52 State Street

William F. Stapleton
Chairman

Ralph P. Walsh
Floyd W. Fradet

December 11, 1968

Jeter & Cook, Architects
799 Main Street
Hartford, Connecticut

Attn: Mr. Butler W. Andrus

Re: Girl Scout Dam

Gentlemen:

The County Hydraulic Engineer made an inspection of the above subject dam recently and we include hereinafter, his report on conditions noted at the dam. Your attention is called to his recommendations for the development of a good growth of sod on the embankment and for controlling erosion as a result of water discharged from the spillway, particularly in time of heavy rates of run-off.

There would appear to be no need for immediate action regarding the erosion caused by spillway water. However, since the erosion is taking place, it can be expected that erosion will occur during the springtime when rates of run-off will be high.

During the winter, there will be very little erosion unless a thaw is experienced.

It is suggested that if you do have personnel at the site of the Girl Scout Camp, consideration be given to lowering the water level behind the dam by the removal of some of the stoplogs in the control structure. This will reduce the quantity of overflow passing thru the spillway structure and causing erosion. Also, if workmen are in the area and boulders are available for the control of erosion, these should be placed along the route of flow of the discharged water so as to minimize the erosion action and to protect the toe of the dam from any encroachment by the overflowing water.

GEORGE H. McDONNELL
COUNTY HYDRAULIC ENGINEER
HARTFORD, CONNECTICUT

*THE
BOND*

CONSULTING ENGINEERS

CIVIL, SANITARY AND ELECTRICAL ENGINEERING
INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3591

CD Tolland
March 18, 1969

Jeter & Cook, Architects
799 Main Street
Hartford, Connecticut

Attn: Mr. Butler W. Andrus

Gentlemen:

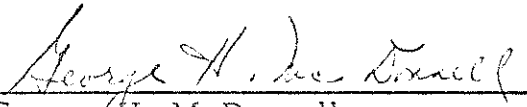
Reference is made to the Girl Scout Dam in the Town of Tolland, Mass., and the fact that there now exists a heavy snow cover throughout Western Massachusetts. The water content of this snow cover, coupled with a warm spring rain could result in extremely heavy runoff conditions. Consequently, the Commissioners of Hampden County have directed that I advise you to be sure that the spillway facilities at your dam are clear of any obstruction and that you take all precautions necessary to protect your dam as well as persons and property downstream.

I also call your attention to the communication from the Commissioners of Hampden County of December 11, 1968.

Water level in storage should be lowered under controlled conditions so as not to release too great a quantity downstream which might cause temporary flooding. The area along the toe of the dam where spillway discharge has caused erosion should be examined and any necessary corrective action taken in advance of spring flood flows.

If you have any question in connection with this matter, the undersigned can be reached at the above address and telephone number.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/amd



Commonwealth of Massachusetts

County of Hampden

Springfield, Mass.

Office of the
County Commissioners
52 State Street

William F. Stapleton
Chairman

Ralph J. Walsh

Floyd M. Fradet

Stephen A. Moynahan

October 1, 1969

Jeter & Cook, Architects
799 Main Street
Hartford, Connecticut

Attn: Mr. Butler W. Andrus

Gentlemen:

Re: Girl Scout Dam
Tolland, Mass.

In accordance with the provision of Chapter 253, Section 45, et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that the dam at the Girl Scout property in Tolland has been recently inspected by our Engineer and his comments and report in connection with this dam are as follows:

"Girl Scout Dam The embankment forming this dam was noted to be very good insofar as shape and surface condition are concerned. Though there is little or no vegetation growing on the embankment, the surface is hard and shows little or no sign of erosion. The toe area along the embankment is reasonably dry.

The owners should discourage any weed and brush growth which may begin to occur on the dam embankment and should promote a good cover of grass and sod.

Water level in storage has been drawn down. The stoplogs are out of the control structure, and water was being passed thru the dam by means of the drawdown pipeline. The drawdown gate was partly open, but the operating wheel seems to have rusted to the stem. The stem should be freed so that the wheel can raise and lower the gate stem without undue force and friction. The gate stem should be kept greased and oiled. The wheel controlling the drawdown gate should be operated periodically so that there will be no binding between the wheel and the threads of the gate stem.

The spillway channel was satisfactory. Little or no erosion was taking place downstream of the toe of the dam embankment as a result of overflowing water from the spillway. The channel is being improved by further rock fill payment. The entire spillway channel should be paved with rock to prevent any undue erosion in time of flood flow conditions.

In the opinion of the undersigned, the dam is safe. However, the owners should develop a good growth of sod on the dam embankment and should free the wheel from the operating stem of the drawdown gate."

We are sending this communication to you since you may still be in charge of maintenance and improvements at this dam. If the letter should be addressed to the Girl Scouts, please forward this letter to the Girl Scout office.

The recommendations contained in the report of the County Hydraulic Engineer should be complied with.

Any further information desired in connection with this matter can be obtained from our Board or the County Hydraulic Engineer.

Very truly yours,

BOARD OF COUNTY COMMISSIONERS

Newell Dam



1956 Tolland

Dam is part of State Highway culvert inlet - located adjacent to New Boston Road - highway Route 57 - and is on the brook that drains from Twinning Pond. This file contains a report of all dams in Tolland.

City/Town	Tolland
Dam	Tunxis Club Daran Intake Dam
Dam	Tunxis Club Penstock Dam
Dam	Preston Dam
Dam	Tunxis Club Trout Pond Dam
Dam	Tunxis Club New Trout Pond Dam
Dam	Anderson Dam
Dam	Newell Dam
Dam	Richmond Dam
Dam	Lost Wilderness Ranch Dam
Dam	Deeming Dam
Dam	Camp Spruce Hill Dam
Dam	Wynbrooke Dam
Dam	Noyes Pond Dam
Name	Newell, H E
Streets	New Boston Road
Streets	Route 57
Water	Twining Pond

CD - Tolland
Sept. 16, 1957

The Hon. the Board of County Commissioners
Hampden County Court House
Elm Street
Springfield, Mass.

Gentlemen:

Recent inspections in the Town of Tolland have now completed the inspection routine in this community and all dams have been examined one or more times during 1957. The following is a report on the conditions of the various dams situated in the town of Tolland.

A. Anderson Dam

There has been no dam at this site for many years. The site is inspected annually and no work has ever been done in connection with any restoration of this dam. It is doubtful if a dam will ever be rebuilt at the site of the old Anderson Dam.

B. Richmond Dam

This dam was found to be in fair condition. Leakage is taking place under the left section of the spillway structure. This leakage could probably be stopped somewhat by dumping fines or ashes on the upstream side in the pond where the surface of the earth fill has settled and where there is evidence of water entering the dam to emerge downstream as leakage. This condition is not serious but the owner of the dam could be advised of the condition and the method for stopping the leakage.

C. H. E. Newell Dam

This dam was found to be in satisfactory condition.

D. Lost Wilderness Ranch Dam

This dam has not been changed or altered in any manner since it was breached by the flood of August 1955. No pond is formed and a wide waterway is available thru the earth embankment of the dam for the passage of the stream flow. Conditions at the site of this breached dam are satisfactory.

E. Deeming Dam

This dam was found to be in satisfactory condition. It is a very shallow earth and boulder dam impounding a small pond. Even

if this dam did become dilapidated and even if it did wash out, it would do no damage to persons and property downstream.

F. Camp Spruce Hill Dam (Formerly Wynbrooke at Victory Lake)

The wooden covering over the spillway structure has been removed. The spillway structure should be left free of a covering that will restrict the overflow of flood waters. Logs, wood and miscellaneous debris in the spillway channel should be removed. It is recommended that the owner be notified of this condition.

G. Noyes Pond Dam

This dam was found to be in satisfactory condition. The emergency spillway at the left portion of the dam should be cleared out of all logs and miscellaneous debris as well as any brush growth that clogs the spillway and will act as a hindrance to the passage of flood flows. It is recommended that the owner be notified of this condition.

H. Tunxis Club Intake and Penstock Dam

This structure is somewhat dilapidated and abandoned. It no longer ponds water and the structure presents no danger to persons and property downstream.

I. Tunxis Club New Trout Pond Dam

Some compacted earth fill is needed at the back of each masonry abutment wall. This condition is particularly evident at the right end of the concrete section. Fish screens in the spillway of this dam should be removed before the Fall rainy season sets in. Otherwise the dam was found to be in satisfactory condition. It is recommended that the owner be notified of the maintenance needed at the dam and that the fish screens be removed.

J. Tunxis Club Trout Pond Dam

This dam was damaged considerably in the flood of August 1955. The dam is now under repair and all flood washed holes in the earth embankment have been filled. A new spillway chute is being constructed of planks across the top of the dam and this chute is about the same size and design as the old main spillway. There is a possibility of leakage under the planks of the spillway and it is the opinion of the undersigned that greater spillway capacity should be provided. It is recommended that the owner of the dam be notified to file plans and specifications of the proposed new construction and that spillway capacity should be ample for anticipated storm runoffs. Also, any fish screens to be installed at this dam should not be installed until the design of the screen is approved by your Board.

Lost Wilderness Ranch Dam aka Old Deeming Dam



1926 Tolland

Located on Twining Brook. This file contains a report of all the dams in Tolland.

City/Town	Tolland
Dam	Lost Wilderness Ranch Dam
Dam	Cavellier Dam
Dam	Tunxis Club Trout Pond Dam
Dam	Anderson Dam
Dam	Richmond Dam
Dam	Newell Dam
Dam	Camp Spruce Hill Dam
Dam	Wynbrooke Dam
Dam	Noyes Pond Dam
Dam	Tunxis Club Intake Dam
Dam	Preston Dam
Dam	Tunxis Club New Trout Pond
Dam	Deeming ("Old") Dam
Dam	Tunxis Club Penstock Dam
Name	Cavellier, E F
Name	Tunxis Club
Name	Deeming, C E

NameLost Wilderness Ranch

WaterTwining Brook

August 25, 1948

Mr. E. Cavellier
Lost Wilderness Ranch
Tolland, Massachusetts

Dear Sir:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam located on Twining Brook, so-called, in the Town of Tolland has been inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him:

"In a recent inspection made of the Old Deeming Dam now owned by E. Cavellier located in Tolland, it was found that the spillway pipes are inadequate in size and the pipes partly blocked so as to interfere with the passage of water. Pipes should be cleaned out and an emergency overflow of the swale type built around the southerly end of the dam."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Yours very truly,

COUNTY COMMISSIONERS

Charles W. Bray

Chairman

William Dwight

Thomas F. Sullivan

K. Preston Dam This dam remains in the same condition as has existed since the flood of Aug. 1955. The dam is breached and a free waterway exists for the passage of flood flows. Conditions as noted when last inspected show the dam to be satisfactory.

Respectfully submitted,

George H. McDonnell
County Hydraulic Engineer

GHM/r

Copy of this letter sent to
Lost Wilderness Ranch,
Tolland,
Mass.

The carbon copy was signed by the Comms.

December 21, 1949

Mr. C. E. Deeming
Tolland, Mass.
P. O. New Boston, Mass.

Dear Sir:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam located on the rear of the property now occupied by the Lost Wilderness Ranch has been inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him:

"In a recent inspection made of the old Deeming Dam located on the rear of the property now occupied by the Lost Wilderness Ranch, it was found that the emergency overflow of the swale type, recommended previously, has not been constructed. This swale overflow should be constructed immediately and maintained in a clean condition."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Yours very truly,

COUNTY COMMISSIONERS

By Thomas F. Sullivan
Chairman

Charles W. Bray

William F. Stapleton

JAMES L. TIGHE
PHILIP E. BOND

TELEPHONE
HOLYOKE 5525

TIGHE & BOND
CONSULTING ENGINEERS
189 HIGH STREET
HOLYOKE, MASSACHUSETTS

WATER SUPPLY
SEWERAGE
SEWAGE DISPOSAL
WATER POWER
DAMS

July 10, 1950

The Hon. The Board of County Commissioners
Hampden County Court House
Springfield, Mass.

Attn: Thomas F. Sullivan, Chairman

Gentlemen:

We have made an inspection of the dams in the
Town of Tolland and find that the following require atten-
tion as noted:

- A. Old Deeming Dam (Lost Wilderness Ranch),
owner, E. F. Cavellier:

The channel from the overflow pipes at the
end of the dam requires cleaning and also
an emergency swale spillway should be con-
structed on the opposite end of the dam from
the overflow pipes. The construction of this
swale spillway has been recommended previously
but no work has been done on its construction
to date.

- B. Tunxis Club (Trout Pond Dam)

The repair work to this dam, as recommended in
1949, has been completed, however in certain
parts of the gravel fill dam, the gravel located
behind the upstream face plank has settled.
Additional gravel should be brought in and these
holes filled to the grade of the top of the dam.

Very truly yours,

By


G. H. McDonnell
County Hydraulic Engineer

COPY

July 12, 1950

E. F. Cavellier
Lost Wilderness Ranch
Tolland, Mass.

Dear Sir:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam has been inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him:

"In a recent inspection made of your dam, it was found that the channel from the overflow pipes at the end of the dam requires cleaning, and also an emergency swale spillway should be constructed on the opposite end of the dam from the overflow pipes. The construction of this swale spillway has been recommended previously, but no work has been done on its construction to date."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Yours very truly,

COUNTY COMMISSIONERS

By _____
Chairman

June 20, 1951

E. F. Cavellier
Lost Wilderness Ranch
Tolland, Mass.

Dear Sir:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam located at Lost Wilderness Ranch in Tolland has been recently inspected by our Engineer, and your attention is called to the following conditions noted and recommendations made by him:

"Two spillways have been cut through the center of the dam. If these spillways are to be maintained they should be paved with rip rap or concrete to prevent erosion and possible loss of the structure. This paving should be done during the summer months. If the two spillways are temporary and are to be abandoned, an emergency swale spillway should be cut through natural soil on the far end of the dam."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Very truly yours,

COUNTY COMMISSIONERS

By _____
Chairman

September 2, 1953

Mr. E. F. Cavellier
Lost Wilderness Ranch
Tolland, Mass.

Dear Sir:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam located to the rear of your ranch buildings in Tolland has been recently inspected by our Engineer, and your attention is called to the following conditions noted and recommendations made by him:

" This dam has been improved by the installation of a new draw-off pipe and valve. The work of installing these items has been done in a satisfactory manner. However one overflow pipe originally located on the northerly end of the dam has been removed. At one time two overflow pipes were located side by side. With the removal of one pipe it is more important than ever that the channel or swale spillway recommended in the past be constructed on undisturbed ground around the southerly end of the dam. This work should be done this summer or the new valve installed in the dam opened wide to prevent bonding of water."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Very truly yours,

COUNTY COMMISSIONERS

By _____
Chairman

WATER SUPPLY

SEWERAGE

SEWAGE DISPOSAL

STRUCTURAL ENGINEERING

TIGHE & BOND
CONSULTING ENGINEERS

GEORGE H. McDONNELL, PROP.

189 HIGH STREET

HOLYOKE, MASSACHUSETTS

May 20, 1954

DAMS & POWER INSTALLATIONS

HIGHWAYS & BRIDGES

HOUSING DEVELOPMENT

WASTE DISPOSAL

The Hon. the Board of County Commissioners
Hampden County Court House
Springfield, Massachusetts

Attention Mr. Thomas F. Sullivan, Chairman

Gentlemen:

The undersigned has completed the work of inspecting a portion of the dams in the Town of Tolland and finds that work still remains to be done on the following dams:

- A. Lost Wilderness Dam in Tolland: The swale spillway recommended in previous years still has not been constructed. When certain repairs were made to the dam a year ago, the spillway was changed in that a double pipe spillway was replaced with a single pipe spillway. With the removal of one pipe it is more important than ever that the channel or swale type of spillway previously recommended be constructed.

On the day of inspection the single overflow pipe was found to have a wire screen across the inlet end. This screen could become plugged with debris and the discharge capacity reduced sufficiently to cause over-topping of the dam, even at moderate flows. From conditions noted on the day of inspection and from the low free board available as a result of the screened over-flow pipe, the necessity of constructing a swale spillway was quite evident.

It is recommended that the owner be directed to construct the swale spillway and thus provide more overflow capacity or that the pond must be drawn down sufficiently to provide adequate safe conditions.

Respectfully submitted,

GHM*emm


George H. McDonnell
County Hydraulic Engineer

May 26, 1954

Mr. E. F. Cavellier
Lost Wilderness Ranch
Tolland, Mass.

Dear Sir:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam located to the rear of your ranch buildings in Tolland has been recently inspected by our Engineer, and your attention is called to the following conditions noted and recommendations made by him:

"The swale spillway recommended in previous years has not been constructed. When certain repairs were made to the dam a year ago, the spillway was changed in that a double pipe spillway was replaced with a single pipe spillway. With the removal of one pipe it is more important than ever that the channel or swale type of spillway previously recommended be constructed.

"On the day of inspection the single overflow pipe was found to have a wire screen across the inlet end. This screen could become plugged with debris and the discharge capacity reduced sufficiently to cause over-topping of the dam, even at moderate flows. From conditions noted on the day of inspection and from the low free board available as a result of the screened over-flow pipe, the necessity of constructing a swale spillway was quite evident.

"It is recommended that the owner be directed to construct the swale spillway and thus provide more overflow capacity or that the pond must be drawn down sufficiently to provide adequate safe conditions."

You will kindly take the necessary steps to provide adequate spillway capacity as recommended in our Engineer's report. In order that the construction of this swale spillway or the addition of some other satisfactory spillway capacity will not be delayed too long, will you kindly notify this Board when you expect to do the necessary work at the dam. We will be glad to have our Hydraulic Engineer meet with you in Tolland to describe for you the need of the extra spillway capacity and to assist you in planning the work.

August 17, 1955

Lost Wilderness Ranch
Tolland,
Mass.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the Dams of Hampden County, you are hereby advised that your dam located to the rear of your ranch area in Tolland, Mass., has been recently inspected by our Engineer, and your attention is called to the following conditions noted and recommendations made by him:

"One of the old spillway tubes has been removed and a swale spillway substituted. The swale spillway should be enlarged by increasing the width of the trough to at least twice its present size. The swale trough should be cleared of any debris and should be maintained to allow free flow of water."

Will you kindly take steps to correct this situation by September 30th, 1955. Any further information concerning this matter which you may desire will be furnished by this office upon request. Our County Hydraulic Engineer will reinspect the dam following the completion of the repair work.

Very truly yours,

COUNTY COMMISSIONERS

By William F. Stapleton
Chairman

Ralph P. Walsh

Acting County
Commissioner

Francis M. O'Keefe

August 17, 1955

Lost Wilderness Ranch
Tolland,
Mass.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the Dams of Hampden County, you are hereby advised that your dam located to the rear of your ranch area in Tolland, Mass., has been recently inspected by our Engineer, and your attention is called to the following conditions noted and recommendations made by him:

"One of the old spillway tubes has been removed and a swale spillway substituted. The swale spillway should be enlarged by increasing the width of the trough to at least twice its present size. The swale trough should be cleared of any debris and should be maintained to allow free flow of water."

Will you kindly take steps to correct this situation by September 30th, 1955. Any further information concerning this matter which you may desire will be furnished by this office upon request. Our County Hydraulic Engineer will reinspect the dam following the completion of the repair work.

Very truly yours,

COUNTY COMMISSIONERS

By William F. Stapleton
Chairman

Ralph P. Walsh

Acting County
Commissioner

Francis M. O'Keefe

CD-Hampden

Nov. 9, 1956

The Hon. the Board of County Commissioners
Hampden County Court House
Elm Street
Springfield, Massachusetts

Gentlemen:

Recent inspections of dams, in the Town of Tolland, have now completed the inspection routine in this community and all dams have been examined once or more times during 1956. The following is a report on the condition of the various dams in the Town of Tolland:

A. Anderson Dam. This dam was located on the west branch of the Farmington River at a point about midway between New Boston and the Connecticut State Line. This dam has been breached for many years and no water has been backed up by the structure in the Farmington River. The site is inspected annually to be certain that conditions at this dam are not changed to result in the ponding of water.

B. Richmond Dam. The Richmond dam is an earth structure with a concrete overflow spillway. It is situated on Wards Pond just upstream from East Otis Road. During the flood of August 1955, two slight washouts of the earthen embankment occurred. These washouts were not serious. The location of the washouts is left of the spillway and on the left portion of the embankment itself. These washouts have not been completely repaired and the Owner should be instructed to fill the washouts with well compacted earth. Flashboards on this dam should be removed in the Fall, each year, and not replaced until the following Spring.

C. H. E. Newell Dam. This dam is located adjacent to New Boston Road, Highway Route 57 and is on the brook that drains from Twining Pond. During the flood of August 1955, the dam and the road downstream of the dam was topped by flood water. The road was washed out but the dam held. This dam is in good condition and is satisfactory.

D. Lost Wilderness Ranch Dam. This dam is situated on Twining Pond just to the rear of the Lost Wilderness Ranch property on East Otis Road. During the flood of August 1955, the dam was topped by about 12-inches of water and the earth

embankment was washed thru in the center portion. This wash-out is deep and quite wide. As the result, very little water is now stored at this site. The Owner should be notified that the breach thru the dam should not be plugged and the dam repaired until Plans and Specifications of the repairs and of a new spillway are filed and approved.

E. Deeming Dam. This is a very shallow earth and boulder dam located on Trout Pond just south of New Boston Road, in the westerly portion of Tolland. The dam withstood the flood of August 1955 and is in relatively good condition.

F. Camp Wynbrooke Dam. This dam is located on Victory Lake. It is in the southern portion of Tolland near Colebrook River Road. It is an earthen structure with an overflow spillway near the left abutment area. This dam was raised and strengthened a few years ago and as a result of this improvement the structure withstood the flood of August 1955. The dam is in satisfactory condition.

G. Noyes Pond Dam. This is a small boulder, earth and masonry dam situated at the eastern end of Noyes Pond on the property of the Tunxis Club near Clubhouse Road. In the flood of August 1955 the dam was topped but because of its masonry construction and boulder content no damage occurred to the dam. When last inspected the stop logs in the spillway had been removed and the pond was drawn down to its low level. This dam is satisfactory.

H. Tunxis Club Intake & Penstock Dam. This dam has been abandoned and no longer ponds water. The Structure has been abandoned for years and was not damaged in the flood of 1955.

I. Tunxis Club New Trout Dam. This dam was completed just prior to the flood of August 1955. The structure withstood the flood satisfactorily except for a washout of earth around the south end of the structure in natural soil. This washout has been plugged and a substantial high dike constructed to prevent a recurrence of this condition. The dam was satisfactory when last inspected on Oct. 24, 1956.

J. Tunxis Club Trout Pond Dam. This dam is located on Trout Pond. The dam is on Pond Brook and this brook drains to Babcock Brook thence to Hubbard Brook and into Connecticut just above Barkhamsted Reservoir. The dam is composed of logs, treated planking, earth and boulders. It has a wooden overflow and a swale spillway at the right end. During the flood of August 1955 the dam was topped by about one foot of water. The earth portion of the dam was washed out in three separate places but the planking, timbers and logs on the upstream face of the dam held and to this day still retain the pond. No work has been done to repair this dam. The structure is not safe in its present condition and though there is very little danger of sudden failure, the dam should be either repaired properly and the spillway enlarged or the dam should be breached and abandoned.

K. Preston Dam. This dam is situated on Ripley Brook just westerly of Amos Case Road. It is an earthen structure with a spillway near the right portion of the embankment. It is relatively high and when in good condition formed a reasonably large private pond used for recreational purposes. Its present owner is a Mr. Garrett of New York City. During the flood of August 1955 the earth embankment was washed thru just to the left of the masonry spillway. This breach still exists and no pond is formed at the present time. The breach is deep and wide and allows for the free flow of the brook. The owner should be notified that no repairs to the dam are to be made until Plans and Specifications of the repairs are prepared, filed and approved.

In summary, of the eleven dams and dam sites in Tolland, two dams were washed thru in August 1955, and no longer pond any water of consequence, one, Trout Pond Dam, was seriously damaged but still forms a pond while two dams received minor damage and have been repaired, in part.

Respectfully submitted

George H. McDonnell
County Hydraulic Engineer

GHM/emb

Nov. 21, 1956

Mr. E. F. Cavellier
c/o Lost Wilderness Ranch
P. O. Box 97 New Boston
Tolland, Mass.

Dear Sir:

At a recent inspection of dams in the Town of Tolland made by the County Hydraulic Engineer, it was noted that the dam at the rear of your ranch property situated on Twining Pond is still breached as a result of the flood of August, 1955.

We wish to call your attention to the fact that this dam cannot be repaired and the breach plugged until proper plans and specifications of the proposed repairs are drawn and submitted to this office for review and approval. If you are considering the repair of this dam, we wish to point out at this time that any repair work must include a new spillway of sufficient size to adequately care for runoff under extreme flood flow conditions. No work should be done on this dam to cause the ponding of water without first obtaining permission thru this office.

Any further information desired in connection with this matter will be made available to you upon request.

Very truly yours,

BOARD OF COUNTY COMMISSIONERS

GHM/f

April 11, 1958

Mr. E. F. Cavellier,
Lost Wilderness Ranch,
New Boston, Massachusetts.

Dear Sir:

The County Commissioners of Hampden County have directed me to reply to your letter of April 5, 1958 in which you stated that you wish to rebuild a dam on your property.

Before approval can be obtained from the County Commissioners of Hampden County, it will be necessary for you to present a petition with a filing fee of \$5.00 to the County Commissioners of Hampden County, Superior Court Building, Springfield, Mass., together with a set of plans and written specifications.

These plans and specifications will then be studied by the County Hydraulic Engineer, Mr. George H. McDonnell, Bowers and Pequot Streets, Holyoke, Mass. After consideration by Mr. McDonnell, he will make a recommendation to the County Commissioners either approving in their entirety the plans and specifications or dis-approving them in their entirety. On the other hand, he may approve of part of the plans and specifications and recommend dis-approval with respect to the remainder of the plans and specifications. If the plans and specifications are not approved in their entirety or are approved in part or dis-approved in part, Mr. McDonnell's recommendation will be sent to the County Commissioners and you will be informed of the same so that you may submit new plans and specifications or altered plans and specifications.

If you find it desirable, you may call and speak to Mr. McDonnell on this matter at his office in Holyoke.

Very truly yours,

COUNSEL FOR HAMPDEN
COUNTY COMMISSIONERS

WJF/N



LOST WILDERNESS RANCH

NEW BOSTON, MASSACHUSETTS

The Sportsman's Paradise. 1,500 Feet Elevation in the Beautiful Berkshires

The Ranchiest Ranch in the East!

C. J. Walter, Manager

April 5, 195⁸



Commonwealth of Mass.
County of Hampden
Springfield, Mass.

Gentlemen:



I would like to re-build the dam on my property
which was washed out a few years ago.

I understand that your approval must be obtained
and that certain plans must be followed. Therefor,
will you please have your engineers furnish me with
plans and other information so that I can conform
with same.



Very truly yours,
E. F. Cavellier
E. F. Cavellier
OWNER



September 14 1959

Office of County Commissioner
37 Elm Street
Springfield, Massachusetts

Subject: Rebuilding the Dam

Gentlemen:

I would like information on rebuilding the dam of what was, previous to the flood of 1955, Twining Pond. It is located in the town of Tolland and is owned jointly by Mr. C. E. Deming, Lost Wilderness Ranch, and the Tunxis Club.

I understand that your approval must be obtained and that certain plans must be followed. Therefore, will you please furnish me with plans and other information.

Very truly yours,

F. D. Deming - New Boston, Mass.

/jad

Copy of this letter sent to
George H. McDonnell, County Hydraulic Engineer
on September 17, 1959.

CD Tolland

October 1, 1959

Lost Wilderness Ranch
Sandisfield, Mass.

Att: E. F. Cavellier

Dear Mr. Cavellier:

I have your letter of Sept. 27, 1959 pertaining to a meeting of the undersigned in connection with the reconstruction of the dam situated to the rear of Lost Wilderness Ranch at Tolland, Mass.

I note that you wish to meet in connection with this matter on a weekend if possible.

My first opportunity to meet with you on a Saturday would be Oct. 24. I could be at Lost Wilderness Ranch at about 9:00 AM. All Saturdays between now and then have been taken for other conferences and work.

If you are anxious to have a conference at an earlier date, I note that you state I could meet at any time during the week with Mr. Deming. I could meet with Mr. Deming on either Wednesday morning at 9:00 AM on Oct. 7 or Wednesday morning at 9:00 AM on October 14,

Will you kindly let me know which of the three suggested dates is satisfactory to you.

Very truly yours,

George H. McDonnell
County Hydraulic Engineer

GHM/mb



LOST WILDERNESS RANCH

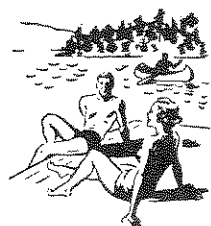
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The Ranchiest Ranch in the East!

Established 1946

September 27, 1959



Mr. Charles H. McDonald
County Hydraulic Engineer
Office of the County Commissioner
37 Elm Street
Springfield, Mass.



Dear Mr. McDonald:

You have been recommended by the Board of County Commissioners to contact regarding the rebuilding of the dam at Lost Wilderness Ranch, Tolland, Mass.



It is my understanding that plans and specifications of the proposed construction must be prepared and filed with the Board of County Commissioners prior to any work being done at the dam.



Before preparing plans, I would like to arrange a meeting with you and Francis Deming of Tolland, Mass. as young Mr. Deming is interested in doing the construction work. In fact, I would also like to be present and can arrange to see you at the ranch any weekend.



However, if it isn't possible for you to visit the site of the construction on a weekend, you can always see Mr. Deming during the week.

Very truly yours,

E. F. Cavellier
E. F. Cavellier

EFC/lm



GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

**TIGHE
& BOND**

CONSULTING ENGINEERS

CIVIL, SANITARY AND ELECTRICAL ENGINEERING
INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland

October 1, 1959

The Hon. the Board of County Commissioners
Hampden County Court House
37 Elm Street
Springfield, Mass.

Gentlemen:

In reference to the letter from Mr. E. F. Cavellier of Lost Wilderness Ranch, I have answered this letter and enclose herewith for your files a copy of my communication. I have suggested three different dates for a meeting on the matter of the dam at Lost Wilderness Ranch and will aid Mr. Cavellier by providing guidance and advice as necessary.

Very truly yours,



George H. McDonnell
County Hydraulic Engineer

GHM/mb

Enc.

CD Tolland
Sept. 23, 1959

Mr. F. D. Deming
New Boston, Mass.

Dear Mr. Deming:

Reference is made to your letter of Sept. 14, 1959, pertaining to the rebuilding of a dam at Twining Pond, in the Town of Tolland.

The dam in question is situated to the rear of the Lost Wilderness Ranch. It was breached in the flood of August 1955 and, though now ponding little or no water, has been inspected from time to time by the County Hydraulic Engineer. The last report made by the Engineer to this Board was dated Aug. 31, 1959. At that time the report pointed out that the dam is still breached as the result of the flood and that the breach is wide and large enough to allow for free flow of the stream, without impounding any large quantity of water. Other general notes regarding the dam and pond were included in the report.

According to the Laws of the Commonwealth of Massachusetts pertaining to dams, it will be necessary that plans and specifications of any proposed construction at this dam be prepared and filed with our Board, prior to any work being done at the dam. Chapt. 253 of the General Laws of the Commonwealth state that any dam that impounds one million gallons of water, that is 10 ft. high or higher or is on a drainage area of one square mile or greater, can only be constructed or altered in accordance with plans and specifications approved by the County Commissioners of the County in which the dam is situated. Plans and specifications must be prepared by the Owner or his Engineer and submitted to the County.

In the last paragraph of your letter you state that you are of the understanding that the approval of this Board must be obtained before your dam can be rebuilt and that plans of the work must be followed. Based upon the Laws of the Commonwealth, and as explained hereinabove, this is correct. Also, you ask us to furnish you with plans and other information.

The County cannot provide plans for the proposed construction. There is no provision in the Law nor are there any funds provided wherein the County can prepare plans for the construction of dams. The County Commissioners review and then either approve or disapprove plans for dams that are submitted by the Owner. However, as stated previously, these plans must be prepared by your own Engineer or by yourself. They must be complete plans and show all phases and features of the construction. Specifications must also be complete, describing the materials and equipment that will be incorporated in the dam.

When you have prepared proper plans and specifications, these should then be sent to our Board, together with a request that you be allowed to build the dam as shown on the plans and as described in the specifications. This request would be in the form of a petition. When the plans and specifications are filed, the filing fee of \$5.00 should accompany the plans and specifications.

If you decide to proceed with the preparation of plans and specifications for any proposed construction, the County Hydraulic Engineer would be pleased to discuss this work with your Engineer or yourself, as the work of preparing plans and specifications progresses. The County Hydraulic Engineer is George H. McDonnell and he can be reached by calling Holyoke, Jefferson 3-3991.

If we can be of any further assistance to you, please do not hesitate to call on us.

Very truly yours

BOARD OF COUNTY COMMISSIONERS

Palmenberg Dams aka Boy's Club Dams



1926 Tolland

Upper and lower dams located on Larkin Brook.

City/Town	Tolland
Dam	Boy's Club Dams
Dam	Palmenberg Dams
Name	Palmenberg, T C
Name	J R Palmenberg's Sons, Inc.
Name	A Z R Corporation
Water	Larkin Brook

Page 65 of report

E. J. Palmenburg,
Haverton, Conn.

you are notified that your
upper dam on Larkin Brook as called in the
Town of Tolland, etc.

"While the dam is in fair
condition, nevertheless, to increase
its factor of safety against flood flow
topping the structure, it is recommended
that the top of the embankment be raised
at least one and a half feet above the
crest of the spillway."

Now, therefore, please

Page 65 of report

E. J. Palmerberg,
Riverton, Conn.

you are notified that your
lower dam, located on Sarkis Brook so called in
the Town of Tolland, etc.

"It is recommended that the
brook be cleaned of debris which has
accumulated where the breach is in
the structure."

Now, therefore, etc.

February 24, 1936

Mr. E. T. Palmenberg,
Riverton, Conn.

Dear Sir:

In accordance with the provisions of Section 45 of Chapter 253 of the General Laws as amended by Chapter 334 of the Acts of 1923 and as further amended by Chapter 178 of the Acts of 1924 relative to the inspection, condition and safety of the dams of Hampden County, you are notified that your lower dam, located on Larkin Brook, so-called, in the Town of Tolland, has been inspected by our engineer and your attention is called to the following recommendations made by him;

"It is recommended that the brook be cleaned of debris which has accumulated where the breach is in the structure."

Now, therefore, in accordance with Section 46 of said Chapter 253, it is ordered that the above recommendations be complied with in a reasonable time.

Yours very truly,

COUNTY COMMISSIONERS

BY _____
Chairman.

JAMES L. TIGHE

MEMBER
AM. SOC. C. E.
INST. C. E. GREAT BRITAIN
ENG. INST. OF CANADA

CONSULTING ENGINEER
CALEDONIAN BUILDING, 189 HIGH STREET
HOLYOKE, MASS.
TELEPHONE 790

MEMBER AM. INST. OF CONSULTING ENGINEERS, INC.

MEMBER
BOSTON SOC. C. E.
ENG. SOC. WEST. MASS.
AM. & N. E. W. W. ASSOC'S

WATER SUPPLY
SEWERAGE
SEWAGE DISPOSAL
ANALYSIS OF WATER

WATER POWER INVESTIGATIONS
AND DEVELOPMENT
DAMS AND POWER INSTALLATIONS
ESTIMATES AND APPRAISALS

Holyoke, Mass.

March 15, 1926.

The Hon. The Board of Hampden County Commissioners,
Springfield, Mass.
George S. Cook, Chairman,

Dear Sir:

In relation to Mr. T. C. Palmenberg's letter asking if the eight and eighteen inch pipe through his dam would not be sufficient to take care of any flood flow water, I beg to state that whether they would or not, any arrangement depending upon the opening of valves by a caretaker, is not a safe one as the caretaker might not be there when needed. Besides, the flood might occur during the nighttime, when the caretaker might be fast asleep, or again, the valves might be out of order and would not respond to manipulation when most needed, as in the case of the Middlerfield Dam, Hampshire County Mass. some years ago and other dams as well.

The safety of an earthen dam against flood flow should not, if possible, depend upon the manipulation of valves by an attendant and the only proper security against flood flow is the regular open surface spillway. I believe Mr. Palmenberg will, in considering the matter further, see the advisability of following the recommendations made in the report upon his dam as by raising or rounding up its top until it is at least a foot and a half higher than the crest of the spillway, the structure will take care of itself against any danger from flood flow or wave action.

Respectfully submitted,

James L. Tighe

E.T. PALMENBERG
PRESIDENT

HORACE D. TRACY
1ST VICE PRESIDENT

LOUIS SKROUD
2ND VICE PRESIDENT

A.C. PORTEOUS
TREAS. & GENERAL MANAGER

F.S. KENT
SECRETARY

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EST 1887

IN REPLY REFER TO

March 9, 1926

Office of the County Commissioners
Court House
Springfield, Mass.

Gentlemen:

Your two letters of February 24th have been handed to me by my father, who is not the owner of the property you write about. Would it not be proper for you to issue the orders in my name so in future you can communicate with me direct?

The spillway of the upper dam, no doubt as you know, is in process of reconstruction. This particular spillway at the present time has one 8" gate valve and one 18" gate valve. Is this not sufficient, in your mind, to take care of any flood overflow? The reconstruction work on this spillway will be taken care of during this coming Spring.

A caretaker is always on the property to take care of the valves in case of any Spring freshets.

In reference to the lower dam, this can easily be corrected. I will plan to have this done at the same time.

Awaiting your reply, beg to remain

Yours very truly

T. C. Palmenberg.

E.T. PALMENBERG
PRESIDENT

HORACE D. TRACY
1ST VICE PRESIDENT

LOUIS SKROUD
2ND VICE PRESIDENT

A.C. PORTEOUS
TREAS & GENERAL MANAGER

F.S. KENT
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March 24th, 1926.

IN REPLY REFER TO

Mr. George S. Cook,
County Commissioner,
Court House,
Springfield, Mass.

Dear Sir:

I have received your letter of March 19th,
enclosing a copy of letter from your engineer, Mr. James
L. Tighe regarding the condition of the dam in question.
The recommendations which you therefore make will be taken
care of in the near future.

Yours very truly,

T. C. Palmenberg

TCP:EB

February 24, 1926

Mr. E. T. Palmenberg,
Riverton, Conn.

Dear Sir:

In accordance with the provisions of Section 45 of Chapter 253 of the General Laws as amended by Chapter 334 of the Acts of 1923 and as further amended by Chapter 178 of the Acts of 1924 relative to the inspection, condition and safety of the dams of Hampden County, you are notified that your upper dam on Larkin Brook, so-called, in the Town of Tolland, has been inspected by our engineer and your attention is called to the following recommendations made by him;

"While the dam is in fair condition, nevertheless, to increase its factor of safety against flood flow topping the structure, it is recommended that the top of the embankment be raised at least one and a half feet above the crest of the spillway."

Now, therefore, in accordance with Section 46 of said Chapter 253, it is ordered that the above recommendations be complied with in a reasonable time.

Yours very truly,

COUNTY COMMISSIONERS

By _____
Chairman.

March 19, 1926

Mr. T. C. Palmenberg,
63-65 West 36th St.,
New York, N.Y.

Dear Sir:

Replying to your letter of March 9th,
we have referred same to our engineer, Mr. James L.
Tighe of Holyoke, Mass.

We are enclosing copy of Mr. Tighe's reply
and it is ordered that the contents of same be carried
out.

Yours very truly,

COUNTY COMMISSIONERS

By _____
Chairman

C/N
Enc.

E. T. PALMENBERG
PRESIDENT

HORACE D. TRACY
1ST VICE PRESIDENT

LOUIS SKROUD
2ND VICE PRESIDENT

A. C. PORTEOUS
TREAS & GENERAL MANAGER

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J. R. PALMENBERG'S SONS
EST 1852

THE NORWICH NICKEL & BRASS CO.
EST 1879

The Jacob Kindlimann Form Co.
EST 1887

IN REPLY REFER TO

July 28, 1926

Office of County Commissioners,
Court House,
Springfield, Mass.

Gentlemen: -

In reference to your two letters of February 24, 1926, wherein you make two recommendations on the condition of upper and lower dam on Larkin Brook in the town of Tolland. This has been taken care of and any time at the convenience of your engineer, he may come over and inspect them.

I remain,

Yours very truly,

J. R. Palmenberg

TCP:H

May 17, 1933

Mr. T. C. Palmenberg,
63-65 West 36th St.,
New York, N. Y.

Dear Sir:

In accordance with the provisions of Section 45 of Chapter 253 of the General Laws as amended by Chapter 334 of the Acts of 1923 and as further amended by Chapter 178 of the Acts of 1924 relative to the inspection, condition and safety of the dams, of Hampden County, you are notified that your upper dam, located on Larkin Brook, so called, in the Town of Tolland, Mass., has been inspected by our engineer and your attention is called to the following condition noted and recommendation made by him;

"To increase the factor of safety of this dam against being topped by flood flows, the embankment should be raised to a height of at least two feet above the crest of the spillway or the crest of the spillway should be lowered to a height of at least two feet below the top of the embankment."

Now, therefore, in accordance with Section 46 of said Chapter 253, it is ordered that the above recommendation be complied with in a reasonable length of time.

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Yours very truly,

COUNTY COMMISSIONERS

By _____
Chairman.

May 24, 1933

Mr. T. C. Palmenberg,
89-91 West 3rd St.
New York City, N.Y.

Dear Sir:

In reply to your letter of May 19th,
we desire to say that it will be agreeable to the County
Commissioners to have the work done on your upper dam
located on Larkin Brook in the Town of Tolland, Mass.,
as ordered in our letter of May 17th, during the month
of July when you, personally, will be on the premises.

Yours very truly,

COUNTY COMMISSIONERS

By _____ Chairman.

C/N

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boston
26 Kingston st.

office and factory
89-91 west 3rd st. nyc.

May 19, 1933

County Commissioners
Court House
Springfield, Mass.

Att: Mr. T.J. Costello.

Gentlemen:

This will acknowledge your favor of May 17th referring to the inspection of the dam located on Larkin Brook.

The height of this roadway was recently increased, however, will see to it that additional height is obtained so as to meet with specifications.

Would it be agreeable to you if this work is done sometime during the month of July, at which time the writer personally will be on the premises?

Thanking you for calling this matter to my attention, I remain,

Very truly yours,

T. C. Palmenberg

Preston Dam



1952 Tolland

Located on the headwaters of Ripley Brook adjacent to Amos Case Road in the northeasterly corner of the Town of Tolland.

City/Town	Tolland
Dam	Preston Dam
Name	Camhi, Raphael
Name	Preston, Frederick L
Name	Garrett, Arthur
Name	Messenger
Streets	Amos Case Road
Water	Ripley Brook

August 6, 1952

Mr. Frederick L. Preston
National Mohaiwe Bank Building
Great Barrington, Mass.

Dear Sir:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam located on the headwaters of Ripley Brook, adjacent to the Amos Case Road in the northeasterly corner of the Town of Tolland, has been recently inspected by our Engineer, and your attention is called to the following conditions noted and recommendations made by him:

"This dam is on the headwaters of Ripley Brook and is located adjacent to the Amos Case Road in the northeasterly corner of the Town of Tolland. At one time a very small dam was located at this site. The present dam has been recently constructed of earth and has a stone and concrete masonry spillway. The height of the dam exceeds 10 feet and the water impounded is well over one million gallons. The dam requires strengthening by the building up of the earth section to a greater thickness, by properly supporting the flashboards in the spillway, by adding earth and rock fill to the downstream abutment walls of the spillway, and by widening the top of the dam in the vicinity of the spillway walls. At all times the top of the uppermost flashboard should be kept at least 24 inches below the top of the masonry walls of the spillway, and the earth fill on all sections of the dam should be kept at a height equal to or greater than the top of the masonry walls. Plans and specifications describing the construction of this dam, and the recommended improvements, should be prepared and filed with the County in accordance with the law."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Very truly yours,

COUNTY COMMISSIONERS

By _____
Chairman

Preston Dam
in
Tolland



FREDERICK L. PRESTON, Agent
Real Estate and Insurance
Mahaiwe Bank Building
GREAT BARRINGTON, MASSACHUSETTS
Telephone: Office 910-J

August 19, 1952

Office of the County Commissioners
County of Hampden
Springfield, Mass.

Gentlemen:

In response to your letter of August 6th, I wish to advise you that I have built the dam much wider and the concrete has been completely covered in front.

I have arranged with a mason to cement up in front of the spillway and close off some of the spillway. He will also cement the spillway.

As soon as the work is completed I will notify you, so that, you can make another inspection.

Very truly yours,

Frederick L. Preston
Frederick L. Preston

STB:mea

Copy sent to Mr. McDonald 8/20/52

September 2, 1953

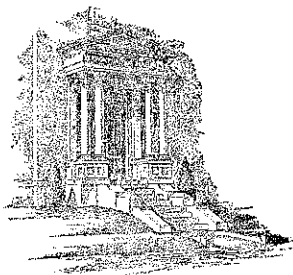
Mr. Frederick L. Preston
National Mahaiwe Bank Building
Great Barrington, Mass.

Dear Sir:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam located on the headwaters of Ripley Brook, adjacent to the Amos Case Road in the northeasterly corner of the Town of Tolland, has been recently inspected by our Engineer, and your attention is called to the following conditions noted and recommendations made by him:

"The work of reconstructing this dam has been completed. The earth section has been enlarged as requested of the owner and though it is constructed of rough sandy material, it appears to be satisfactory. The natural ground downstream of the toe is spongy but there is no concentrated leakage and no major movement of water.

"The owner was previously directed to maintain the top of the uppermost flashboard at least 24" below the top of the masonry walls of the spillway. On the day of inspection the flashboards were only 17" below the top from the masonry walls. The walls should be raised approximately 7" if the present pond level is to be maintained or the pond level should be dropped 7" by lowering of the flashboards. The flashboards and stop logs are held in place by a 2" x 4" scabbled to the masonry walls with what appears to be common spikes. This construction seems dangerous since the failure of the spikes or rotting of the 2" x 4" might cause the sudden release of the impounded waters. A more secure design for holding the flashboards and stop logs should be installed immediately or the pond drawn down. Plans and specifications should be prepared and filed in accordance with the law as outlined to the owner."



VERMONT MUTUAL FIRE INSURANCE CO.

ESTABLISHED 1828

MONTPELIER, VERMONT

FREDERICK L. PRESTON, AGENT
MAHAIWE BANK BUILDING
GREAT BARRINGTON, MASSACHUSETTS

September 4, 1953

County Commissioners
37 Elm Street
Springfield, Mass.

Gentleman:

This will acknowledge receipt
of your letter dated September 2, 1953.

I wish to advise you that in
April, 1952, I sold this land in Tolland
to Mr. Arthur Garrett whose business
address is Dun Building, 99 Church Street,
New York City.

I am forwarding your letter
to Mr. Garrett and I am sure he will give
it his prompt attention.

Very truly yours,

Frederick L. Preston

STB:p

Frederick L. Preston

*Dam located on the
headwaters of Ripley Brook
adjacent to the Arthur Case Road
in the northeasterly corner
of Town of Tolland.*

*Copy of this letter
mailed to
George H. McDonnell
City Hydraulic Engr.*

Nov. 21, 1956

Mr. Arthur Garrett
Dun Building
99 Church Street
New York, N. Y.

Dear Sir:

A recent inspection made of your dam in the Town of Tolland indicates that the structure is still breached as a result of the flood of August, 1955. As now existing, the breach prevents the forming of any pond behind the dam.

We wish to call your attention to the fact that this breach must remain open and free flow of the stream must be allowed until such time as complete plans and specifications are prepared and filed with this office for review. According to the Laws of the Commonwealth, this dam cannot be repaired unless the repairs are first approved by this Board.

If you are contemplating the repair of your dam, you should give consideration to a larger spillway capacity so that the structure will be able to safely pass extreme flood flow runoffs.

Any further information desired in connection with this matter will be made available to you upon request.

Very truly yours,

BOARD OF COUNTY COMMISSIONERS

GHM/r

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

**TIGHE
& BOND**

Philip Sheridan
CONSULTING ENGINEERS

CIVIL, SANITARY AND ELECTRICAL ENGINEERING
INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
Aug. 15, 1962

The Hon. the Board of County Commissioners
Hampden County Court House
37 Elm Street
Springfield, Massachusetts

Gentlemen:

Enclosed please find copies of communications sent to the Owner of the dam formerly the property of Preston, located in Tolland. Also, a copy of a letter sent to Mr. Messenger, the man who is to rebuild the dam for Mr. Camhi. The contents of the letters are self-explanatory.

Very truly yours

George H. McDonnell
George H. McDonnell
County Hydraulic Engr.

GHM/cmb
encs.

CD Tolland
August 13, 1962

Mr. Raphael Camhi
14 West Avenue
South Norwalk, Conn.

Dear Mr. Camhi:

The undersigned as County Hydraulic Engineer for the County of Hampden, Mass., recently made an inspection of the dams situated within the Town of Tolland, Mass. and in doing so, checked the site of the former Preston Dam, now owned by you and situated westerly of Amos Case Road on Ripley Brook. It was noted that no work had been done at the site as contemplated on the plans and specifications filed with the County some time ago.

Before any work is done on the dam, be certain that the construction schedule is sent to me in order that I may plan to inspect the work from time to time as it progresses.

Very truly yours,

George H. McDonnell
County Hydraulic Engineer

GHM/mb



TOWN OF TOLLAND
MASSACHUSETTS 01034
BOARD OF SELECTMEN

May 4, 1968

Mr. William F. Stapleton, Chairman
Hampden County Commissioners
52 State Street
Springfield, Massachusetts 01103

Dear Sir:

This board has recently received a Notice of Intent filed by Ronald E. Messenger of Tolland. The Notice of Intent describes a project concerned with the construction of a dam on property owned by Mr. Messenger. The purpose of the project is to provide a water supply for fire control and to provide a swimming and fishing area for use by campers.

A Public Hearing concerning this project is scheduled to be held on May 13, 1968 at the Tolland Town Hall. Since the project involves the construction of a dam would you advise this board regarding recommendations and instructions which are of particular concern to the Hampden County Commissioners and which should be transmitted to Mr. Messenger. We consider such advice desirable and necessary and would be most appreciated by this board.

Sincerely yours,

A handwritten signature in cursive script that reads "Edward J. Dunn".

Edward J. Dunn
Chairman

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

TIGHE & BOND

CONSULTING ENGINEERS

CIVIL, SANITARY AND ELECTRICAL ENGINEERING
INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
May 9, 1968

Board of Selectmen
Town Office
Tolland, Massachusetts 01034

Gentlemen:

In reference to your letter of May 4, 1968 directed to the Commissioners of Hampden County, the following information is provided for your use in connection with a proposed dam on property of Mr. Messenger.

No dam can be constructed within the County if the dam will store more than one million gallons of water, or is to be 10 ft. high or higher, or if the drainage area involved is a square mile or more unless plans and specifications for the proposed construction are approved by the County Commissioners.

Since the proposed body of water to be formed by the dam is apparently going to be used for swimming purposes and as a fishing pond to be used by campers, it is very likely that the volume of the pond will exceed one million gallons. One acre of land covered to a depth of 3 ft. is equivalent to a million gallons.

Mr. Messenger should be advised to contact the undersigned for a determination as to whether his proposed construction will come under the jurisdiction of the County.

Chapter 253 of the General Laws of the Commonwealth contain the various sections relating to dams. I am enclosing herewith, a copy of Sections 44 thru 50 of Chapter 253. The contents of these sections are self-explanatory.

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

TIGHE & BOND

CONSULTING ENGINEERS

CIVIL, SANITARY AND ELECTRICAL ENGINEERING
INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
May 9, 1968

Board of Selectmen
Town Office
Tolland, Massachusetts 01034

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In reference to your letter of May 4, 1968 directed to the Commissioners of Hampden County, the following information is provided for your use in connection with a proposed dam on property of Mr. Messenger.

No dam can be constructed within the County if the dam will store more than one million gallons of water, or is to be 10 ft. high or higher, or if the drainage area involved is a square mile or more unless plans and specifications for the proposed construction are approved by the County Commissioners.

Since the proposed body of water to be formed by the dam is apparently going to be used for swimming purposes and as a fishing pond to be used by campers, it is very likely that the volume of the pond will exceed one million gallons. One acre of land covered to a depth of 3 ft. is equivalent to a million gallons.

Mr. Messenger should be advised to contact the undersigned for a determination as to whether his proposed construction will come under the jurisdiction of the County.

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GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

***TIGHE
& BOND***

C O N S U L T I N G E N G I N E E R S

CIVIL, SANITARY AND ELECTRICAL ENGINEERING
INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

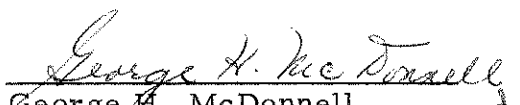
CD Tolland
May 9, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

Enclosed for your information and file, please find a copy of my letter to the Selectmen of the Town of Tolland regarding their letter of inquiry in connection with a proposed pond and dam on property of Mr. Messenger. The contents of my letter are self-explanatory.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/amd
Encl.

Richmond Dam aka Wards Pond Dam aka Garrigues Dam



1926 Tolland

See also: Ward's Pond Dam, Snow Brook, aka Girl Scout Dam. See also: County Roads Plan #5 (1950) "Richmond Dam Repaired". See also: County Roads Plan #12 (1967) "Wards Pond Dam - Conn Valley Girl Scouts".

City/Town	Tolland
Dam	Ward's Pond Dam
Dam	Girl Scout Dam
Dam	Richmond Dam
Dam	Garrigues Dam
Name	Clark, Allen
Name	Garrigues, W A
Name	Connecticut Valley Girl Scouts
Name	Richmond, H T A
Name	Tasker
Water	Snow Brook
Water	Wards Pond

W. A. Sanguet,
Plainfield, New Jersey.

you are notified that your
dam, located on Snow Brook as called in the Town
of Tolland, etc.

"The spillway is built of wood
and is in poor condition, especially the
wood work supporting the embankment at
both its ends, which is rotting out and thus
allowing the embankment to fall in.

If the pond is to be maintained, it
is recommended that the dam be repaired.
Otherwise, that the pond be lowered."

Now, therefore, etc.

JAMES L. TIGHE

MEMBER
AM. SOC. C. E.
INST. C. E. GREAT BRITAIN
ENG. INST. OF CANADA

CONSULTING ENGINEER
CALEDONIAN BUILDING, 189 HIGH STREET
HOLYOKE, MASS.
TELEPHONE 790

MEMBER
BOSTON SOC. C. E.
ENG. SOC. WEST. MASS.
AM. & N. E. W. W. ASSOC'S

MEMBER AM. INST. OF CONSULTING ENGINEERS, INC.

WATER SUPPLY
SEWERAGE
SEWAGE DISPOSAL
ANALYSIS OF WATER

WATER POWER INVESTIGATIONS
AND DEVELOPMENT
DAMS AND POWER INSTALLATIONS
ESTIMATES AND APPRAISALS

Holyoke, Mass.

March 16, 1936.

The Hon. The Board of Hampden County Commissioners,
Springfield, Mass.
George S. Cook, Chairman,

Dear Sir:

In reference to letter handed me today by Miss Neilson written to you by Mr. Garrigues about his dam in Tolland, I beg to say that inasmuch as it is his intention not to maintain the pond, the repairs suggested on the dam need not, of course, be made as the notice sent to Mr. Garrigues states.

To prevent, however, any refilling of the pond, the waterway through the dam should be ample to discharge all flood flows, otherwise the pond might fill up some time and cause failure of the structure, thus suddenly releasing a large body of water which might cause damage especially to the highway nearby.

I would therefore suggest, since the pond is to be kept empty, that the necessity of a waterway large enough through the dam to take care of all flood flows be drawn to the attention of Mr. Garrigues.

Respectfully submitted,

James L. Tighe

March 19, 1926

Mr. W. A. Garrigues,
Levering & Garrigues Company,
552 West 23rd St.,
New York, N.Y.

Dear Sir:

Replying to your letter of March 15th,
we have referred same to our engineer, Mr. James L.
Tighe of Holyoke, Mass., and his recommendations are
as follows:

"Inasmuch as it Mr. Garrigues in-
tention not to maintain the pond, the repairs
suggested on the dam need not, of course, be
made as the notice sent to Mr. Garrigues
states.

To prevent, however, any refilling
of the pond, the waterway through the dam
should be ample to discharge all flood flows,
otherwise the pond might fill up some time and
cause failure of the structure, thus suddenly
releasing a large body of water which might
cause damage especially to the highway nearby.

Since the pond is to be kept empty,
a waterway large enough through the dam to take
care of all flood flows, is necessary."

It is ordered that the above recommendations
be complied with.

Yours very truly,

COUNTY COMMISSIONERS

By _____
Chairman.

Levering & Garrigues Company

Established 1886
Incorporated 1902

Engineers and Contractors

New England Office
Hartford, Conn.

Iron and Steel Construction

552 West 23rd St. New York

File _____ P _____
Subject _____

March 31, 1926.

QUOTATIONS SUBJECT TO PROMPT ACCEPTANCE AND TO CHANGE WITHOUT NOTICE. TERMS OF CONTRACT TO BE MUTUALLY SATISFACTORY.
ALL AGREEMENTS ARE CONTINGENT UPON STRIKES, ACCIDENTS DELAYS OF CARRIERS, AND OTHER DELAYS BEYOND OUR CONTROL.

Mr. George S. Cook, Chairman,
County Commissioners,
Springfield, Massachusetts.

Dear Sir:

I have your favor of the 19th instant with reference to enlarging the waterway through the dam on my property near New Boston, Massachusetts, and have taken this matter up with my tenant who has promised to attend to the matter of enlarging the passage.

I beg to call your attention, however, to the fact that the drainage referred to is from a very limited watershed and the water feeding the old pond is merely a small brook. It seems impossible that any chokage of the opening could ensue which by any possibility could damage property below.

Very sincerely yours,

WAG:AFG

W. A. Garrigues
7-9.

March 10, 1926

Mr. W. A. Carigue,
Plainfield, New Jersey.

Dear Sir:

In accordance with the provisions of Section 45 of Chapter 253 of the General Laws as amended by Chapter 334 of the Acts of 1923 and as further amended by Chapter 178 of the Acts of 1924 relative to the inspection, condition and safety of the dams of Hampden County, you are notified that your dam, located on Snow Brook so-called in the Town of Tolland, has been inspected by our engineer and your attention is called to the following recommendations made by him;

"The spillway is built of wood and is in poor condition, especially the wood work supporting the embankment at both its ends, which is rotting out and thus allowing the embankment to fall in.

If the pond is to be maintained, it is recommended that the dam be repaired. Otherwise, that the pond be lowered."

Now, therefore, in accordance with Section 46 of said Chapter 253, it is ordered that the above recommendations be complied with in a reasonable time.

Yours very truly,

COUNTY COMMISSIONERS

By _____
Chairman.

Levering & Garrigues Company

Established 1886
Incorporated 1902

Engineers and Contractors

New England Office
Hartford, Conn.

Iron and Steel Construction

552 West 23rd St. New York

File _____ P
Subject _____

March 15th, 1926

QUOTATIONS SUBJECT TO PROMPT ACCEPTANCE AND TO CHANGE WITHOUT NOTICE. TERMS OF CONTRACT TO BE MUTUALLY SATISFACTORY.
ALL AGREEMENTS ARE CONTINGENT UPON STRIKES, ACCIDENTS, DELAYS OF CARRIERS, AND OTHER DELAYS BEYOND OUR CONTROL.

Mr. George S. Cook, Chairman
Hamden County Commissioners
Springfield, Mass.

Dear Sir:

I am in receipt of your letter of March 10th. It is not my intention to maintain the Pond in the Town of Tolland, and I had the gates lifted some months ago, with instructions that they were to be kept lifted and the water allowed to escape continuously.

When I visited the site last fall, it was in this condition, and the stream flowing through freely.

If this is not satisfactory, please advise, and oblige,

Yours very truly,



WAG /H

COPY

April 3, 1951

Mr. Allen Clark
Burt Hill Road
Tolland, Mass.

Dear Sir:

Reference is made to your letter of March 29, 1951, pertaining to the planking at the Richmond Dam in Tolland. It is essential that the existing planking be removed and 3-inch planking replaced as soon as possible. The existing planking has been in place for many months since you were notified that it was unsuitable. It would be advisable to remove the 2-inch planking, one plank at a time, and lower the pond to prevent failure and possible damage downstream of the dam. Once the pond is drawn down, you can then take your time in placing the new 3-inch planking, depending upon possible complaints which might arise from loss of the pond by any interested abutters.

Very truly yours,

By

G. H. McDonnell
County Hydraulic Engineer

*Richmond Dam
Tolland*

JAMES L. TIGHE
PHILIP E. BOND

TELEPHONE
HOLYOKE 5525

TIGHE & BOND
CONSULTING ENGINEERS
189 HIGH STREET
HOLYOKE, MASSACHUSETTS

WATER SUPPLY
SEWERAGE
SEWAGE DISPOSAL
WATER POWER
DAMS

April 5, 1951

The Hon. The Board of County Commissioners
Hampden County Court House
Springfield, Massachusetts

Attn: William Stapleton, Chairman

Gentlemen:

Enclosed is a copy of a letter
sent to Mr. Allen Clark, advising him again
to remove the 2-inch planking at the Richmond
Dam in Tolland, and replacing it with 3-inch
planking.

This letter is for your information
and files.

Very truly yours,

By


G. H. McDonnell

County Hydraulic Engineer

June 20, 1951

H. T. A. Richmond
17 Oriole Avenue
Bronxville 8, New York, N. Y.

Dear Sir:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam located in Tolland has been recently inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him:

"The 2-inch planking installed at the time of reconstruction of the dam spillway has not been replaced with 3-inch planking, as called for in the approved plans. A large leak through the dam was noticed south of the spillway. This leak must be investigated and plugged. All trees and brush along the entire length of the dam and on both faces of the dam must be cut down and removed. Richmond Pond must be drawn down immediately and kept drawn down until these recommendations are complied with."

The pond must not be refilled until our Engineer has inspected the dam and approved the work outlined in his report as noted above.

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Very truly yours,

COUNTY COMMISSIONERS

By _____
Chairman

*Respectfully,
H. T. A. Richmond*

JAMES L. TIGHE
PHILIP E. BOND

TELEPHONE
HOLYOKE 5525

TIGHE & BOND
CONSULTING ENGINEERS
189 HIGH STREET
HOLYOKE, MASSACHUSETTS

WATER SUPPLY
SEWERAGE
SEWAGE DISPOSAL
WATER POWER
DAMS

July 10, 1951

The Hon. The Board of County Commissioners
Hampden County Court House
Springfield, Massachusetts

Attention: William F. Stapleton, Chairman

Gentlemen:

The undersigned recently re-inspected the Richmond Dam in Tolland, Mass., owned by H. T. A. Richmond, 17 Oriole Avenue, Bronxville 8, New York, New York, and found that the owner has not complied with the recommendations sent to him by your Board on June 20, 1951. Richmond Dam has not been drawn down; the 2-inch planking has not been removed, nor has the leakage through the dam been plugged.

It is recommended that another letter be sent to Mr. Richmond directing him to comply with the recommendations as set forth in the letter of June 20, 1951, and that if the recommendations are not followed by at least drawing down the pond, then action under Chapter 253, Section 47 and 48 et seq. of the General Laws, Tercentenary Edition shall be instituted.

Respectfully submitted,

By


G. H. McDonnell

County Hydraulic Engineer

Copy of this letter sent to George H. McDonnell,
County Hydraulic Engineer, from County Commis-
sioners' Office, on July 16, 1951.

17 Oriole Avenue
Bronxville 8
New York

July 13th, 1951

COUNTY COMMISSIONERS, County of Hampden
Court House
Springfield
Massachusetts

Gentlemen:-

Thank you very much for your indulgence regarding alteration
in the spillway and maintenance work in the dam of the pond
on my land in Tolland.

My apparent lack of attention to these matters has not been
deliberate. Under exceptionally strenuous personal business
conditions since last fall I have tried to find means of at-
tending to the matter. Mr. Allen Clark, of Tolland, has been
doing the work inasmuch as he is the best qualified for it,
but he, too, with his pressing work in the public service of
excellent road repair work in the Tolland area, has not had
too much time to spare for me.

Actually, I did remove the trees along half the length of the
dam July 1st and cleared brush away in search of the leak in
question.

On July 5th or 6th, Mr. Clark and his crew replaced the planks
in the spillway with 3-inch planking, felled the rest of the
brush on the dam, and started to work on the leak mentioned.
He expects to complete this work this coming week. With the
possibility that the leak is of multiple origin and is not
completely corrected this week, we shall continue to work on
it until it is completed.

I beg for your consideration of the above and earnestly ask that
you forego the requirement of drawing down the pond. I hope to
call at your offices shortly to further discuss this business,
and in the meantime am

Yours very truly,

H.T.A. Richmond
H.T.A. Richmond

Letter sent Registered Mail
Receipt ~~xxx~~ Registry if No. 493
from

July 11, 1951

H. T. A. Richmond
17 Oriole Avenue
Bronxville 8, New York, N.Y.

Dear Sir:

On July 3, 1951 our Engineer re-inspected your dam in Tolland, Mass., and found that the pond had not been drawn down, the 2-inch planking in the stop gate had not been removed and replaced with 3-inch planking, nor had there been any work done to determine the cause and to stop the leakage through the dam, as recommended in our letter of June 20, 1951.

It is imperative that you take the necessary action to draw down the pond immediately and it shall not be filled again until approval of the repair work has been given by this Commission.

Failure to comply with this directive will necessitate our taking action under Chapter 253, Section 47 and 48 et seq. of the General Laws, Tercentenary Edition.

Very truly yours,

COUNTY COMMISSIONERS

By

Chairman

TIGHE & BOND
CONSULTING ENGINEERS

189 High Street
Holyoke, Mass.

August 13, 1951

Board of County Commissioners
Hampden County Court House
Springfield, Massachusetts

Attention: William F. Stapleton,
Chairman

Gentlemen:

The undersigned has reinspected the Richmond Dam in Tolland and finds that the spillway construction has been completed in accordance with the plans and specifications approved by your Board. The major portion of the work on the spillway had been completed some time ago, but the planking installed by the Contractor was 2-inch where the plans called for 3-inch. The Contractor notified the undersigned that the 2-inch planking had been removed and replaced with 3-inch planking. An inspection of the spillway shows that the planking has been changed to 3-inch and the spillway is satisfactory. I recommend to your Board the acceptance of this spillway.

During the past year a leak was discovered under the dam proper. This leakage has been stopped somewhat, but additional work remains to be done by the owner. Since this leak is evidently independent of the spillway construction, it would seem to the undersigned that it should have no bearing on the spillway, and, consequently, acceptance of the spillway can be recommended.

Very truly yours,

G. H. McDonnell
County Hydraulic Engineer

June 4, 1952

H.T.A. Richmond
17 Oriole Avenue
Bronxville 8, New York, N.Y.

Dear Sir:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam located in Tolland has been recently inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him:

"On a routine inspection of the Richmond dam in Tolland on May 29, 1952 it was noted that a fairly large hole had been washed out of the earth fill of the dam at a point about 15 feet south of the spillway. This hole will continue to grow in size until failure of the structure will result. The pond should be drawn down and the washed out section repaired with compacted clay-gravel or concrete. Before repairing the washout, and while the pond is drawn down, its cause should be determined and corrective action taken."

You are directed to draw down the pond as recommended by our engineer and it must not be refilled until repairs to the washout are properly completed and the repair work inspected and found satisfactory.

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Very truly yours,

COUNTY COMMISSIONERS

By _____ Chairman

Richmond Dam

Tolland

TIGHE & BOND

Holyoke, Mass.

June 3, 1952

The Hon, Board of County Commissioners
Hamdpen County Court House
Springfield, Mass.

Attn: William F. Stapleton, Chairman

Gentlemen:-

On a routine inspection of the Richmond dam in Tolland on May 29, 1952 it was noted that a fairly large hole had been washed out of the earth fill of the dam at a point about 15 feet south of the spillway. This hold will continue to grow in size until failure of the structure will result. The pond should be drawn down and the washed out section repaired with compacted clay-gravel or concrete. Before repairing the wash-out, and while the pond is drawn down, its cause should be determined and corrective action taken.

While at the site I removed one flash board from the spillway to start the pond drawdown. Mr. Allan Clark of Tolland, the man whom Mr. Richmond usually has take care of the dam, was notified of the condition and I asked him to take off another flashboard as the Pond dropped in level and thus continue the draw down of the pond.

I recommend that your Board notify Mr. Richmond of the condition of his dam, that you direct him to draw down the pond to a level below the leak and to keep the pond drawn until the leak is properly repaired and the method of repair inspected and approved.

Very truly yours,

George H. McDonnell
County Hydraulic Engineer

August 17, 1955

Mr. H. T. A. Richmond
17 Oriole Avenue
Bronxville 8, N. Y.

Dear Sir:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the Dams of Hampden County, you are hereby advised that your dam located in Holland, Mass., has been recently inspected by our Engineer, and your attention is called to the following conditions noted and recommendations made by him:

"There is a sizeable leak under the left abutment area of the spillway. There is some evidence of the movement of fine particles from under this area of the dam and the abutment. This Fall it would be advisable to draw down the pond for the purpose of investigating and repairing the leak."

Will you kindly take steps to correct this situation by November 30th, 1955. Any further information concerning this matter which you may desire will be furnished by this office upon request. Our County Hydraulic Engineer will reinspect the dam following the completion of the repair work.

Very truly yours,

COUNTY COMMISSIONERS

By William F. Stapleton
Chairman

Ralph P. Walsh

Acting County
Commissioner

Francis M. O'Keefe

Nov. 21, 1956

Mr. H. T. A. Richmond
17 Oriole Ave.
Bronxville 8, N. Y.

Dear Sir:

An inspection of your dam on Wards Pond in the Town of Tolland was recently made by the County Hydraulic Engineer and the condition of the dam reported to this Board. There are two minor washouts in the embankment of the dam. These washouts are located to the left of the spillway. These washouts should be repaired by cleaning them and filling them with well compacted earth. This repair work should be done as soon as possible.

At the time of the inspection it was noted that flashboards were still in place in the spillway on the side sections. These flashboards should be removed in the fall of each year and not replaced in the spillway again until after the heavy spring runoff.

Any further information desired in connection with this matter will be made available to you upon request.

Very truly yours,

BOARD OF COUNTY COMMISSIONERS

GHM/r

Sept. 18, 1957

Mr. H.T.A. Richmond
17 Oriole Avenue
Bronxville 8, N. Y.

Dear Sir:

An inspection of your dam on Wards Pond in the Town of Tolland was recently made by our County Hydraulic Engineer and the condition of the dam reported to this Board.

The County Engineer points out that leakage is taking place under the left section of the spillway structure. This leakage could probably be stopped somewhat by dumping fines and ashes on the upstream side of the pond where the surface of the fill has settled and where there is evidence of water entering the dam to later emerge as leakage.

This recommended maintenance and repair work is not an absolute necessity. The information and recommended corrective measures are submitted to you in the form of advice rather than an order. Conditions at the dam are such that though the pond could drain off in dry weather due to leakage, the leakage as now existing does not endanger the safety of the structure.

Any further information desired in connection with this matter will be made available to you upon request.

Very truly yours

BOARD OF COUNTY COMMISSIONERS

By _____

Oct. 8, 1958

Mr. H. T. A. Richmond
17 Oriole Avenue
Bronxville 8, N. Y.

Dear Sir:

In accordance with the provisions of Chapter 253, Section 45, et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam located in the Town of Tolland has been recently inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him.

"Brush and tree growth on the dam and particularly at the toe of the downstream face to the left of the spillway should be cut and removed. At the time of the last inspection, there was a considerable quantity of water flowing over the spillway and thus, leakage reported last year under the left section of the spillway structure could not be checked for comparison purposes. The dam and spillway in general were found to be in fairly good condition. Certain areas of fill on the dam to the left of the spillway seemed soft. These areas should be compacted and any settlement corrected by the placing of additional compacted fill."

Any further information desired in connection with this matter will be made available to you upon request.

Very truly yours,

BOARD OF COUNTY COMMISSIONERS

Oct. 26, 1960

Mr. H.T.A. Richmond
17 Oriole Ave.,
Bronxville 8, N. Y.

Dear Sir:

In accordance with the provisions of Chapt. 253, Section 45, et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of dams of Hampden County, you are hereby advised that your dam, located in the Town of Tolland and forming Wards Pond, has been recently inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him.

The dam as existing has a hole washed in the surface of the embankment to the left of the spillway. The County Engineer reports that this cavity should be filled with packed earth and that the hole is probably the result of water overflowing the embankment. The report of the inspection shows that stop logs have been maintained in the spillway at elevations of from 18-inches to 24-inches above the level of the concrete floor section of each of the two side spillways.

Your attention is called to the fact that stop logs should be removed in time of storms to allow for the passage of water thru the dam spillway without having water pass over the earth portion of the embankment. If stop logs are to be used, they must be maintained at a low level as previously recommended or they should be of a type that will fail during storm conditions.

Your attention is called to the recommendation made in our communication of Sept. 9, 1959. At that time you were directed to remove the stop logs as existing then and were to refrain from placing these stop logs above the recommended elevation of 6-inches higher than the crest of the side spillway areas.

If you wish to maintain your pond at an elevation higher than the elevation that will result with stop logs as outlined herein, you

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

TIGHE & BOND

C O N S U L T I N G E N G I N E E R S

CIVIL, SANITARY AND ELECTRICAL ENGINEERING
INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

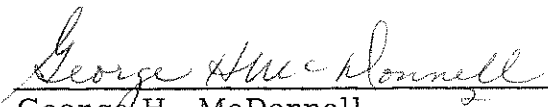
CD Tolland
November 1, 1965

The Hon. the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

This will acknowledge receipt of your letter of October 28, 1965, together with a photocopy of the letter of October 18, 1965, from M. B. Tasker regarding the Ward's Pond Dam in Tolland. I have written to Mr. Tasker and enclose herewith for your files a copy of my communication. The contents are self-explanatory.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/mbf

Enc.

CD Tolland
November 1, 1965

Mr. M. B. Tasker
Brickyard Road
Farmington, Connecticut

Dear Sir:

The Commissioners of Hampden County, Massachusetts, have given me a copy of your communication of October 18, 1965, relative to the dam at Ward's Pond in Tolland, Massachusetts.

I note in the second paragraph that you state that when work is started at the Ward's Pond Dam, you may want to talk with the Engineer who made the inspection.

The undersigned is County Hydraulic Engineer and personally makes the inspections of dams within the County. I would be pleased to meet with you to discuss the work needed at the Ward's Pond Dam.

You may call me or write to me at the above address.

Very truly yours,

George H. McDonnell
County Hydraulic Engineer

GHM/mbf

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

TIGHE & BOND CONSULTING ENGINEERS

CIVIL, SANITARY AND ELECTRICAL ENGINEERING
INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
June 17, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

The undersigned has made further inspections at the site of the Ward's Pond Dam now being enlarged and rebuilt in accordance with plans and specifications filed with your Honorable Board. The most recent inspection was conducted on Tuesday morning, June 11, 1968. The undersigned found that carpenters were engaged in building the forms for the flow control box and preparing this structure for the pouring of concrete. The inside form had been completely set and reinforcing steel was being placed. The undersigned checked the steel and found that the proper sized bars were being set in place and the spacing of the bars was in accordance with the filed drawings.

Present at the site of the work was a representative of the contractor who is now acting as construction inspector on each phase of operations at the dam.

The undersigned reviewed the work going on with the representative from the Associated Construction Company, Mr. Nolan, and it was pointed out that the forms when completed, must be cleaned out thoroughly and concrete well vibrated as it is being poured.

It is the opinion of the undersigned that, since inspection and responsibility of the work has been turned over to Associated Construction Company, the quality of workmanship has greatly improved.

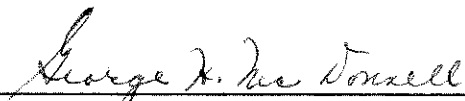
TIGHE
& BOND CONSULTING ENGINEERS

-2-

The undersigned noted and called attention to construction personnel, the fact that some of the sheet piling was too short and did not meet the requirements of the drawings whereby the top of each sheet is to be at elevation 72. It was agreed by all concerned that the contractor would weld extensions onto the sheets which are low and all sheets will then be brought to the required elevation 72.

Further inspections will be made at this dam when earth is being placed and compacted.

Very truly yours,



George H. McDonnell
County Hydraulic Engineer

GHM/amd

Tunxis Club Dams aka Noyes Pond Dams aka Big Trout Pond Dams



1929 Tolland

Tunxis Club Dams, Noyes Pond Dams, new Dam at Penstock Site, Trout Pond Dam-above Big Trout Pond, Big Trout Pond Dams. See also: County Roads Plan #8 (1954) "Dam on Noyes Pond Brook - Tunxis Club - (1963) Club House Pool Dam".

Abutters	Tunxis Estates
City/Town	Tolland
Dam	Noyes Pond Dam
Dam	Big Trout Pond Dams
Dam	Penstock Dam
Dam	Tunxis Club Dams
Dam	Noyes Pond Dams
Dam	Tunxis Club Dams
Name	Tunxis Hunting & Fishing Club
Name	Tunxis Club
Name	Tunxis H F O Club
Water	Big Trout Pond
Water	Noyes Pond
Water	Pond Brook

August 7, 1940

Tunxis Hunting & Fishing Club

Tolland, Mass.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby notified that your dam on Pond Brook in Tolland has been inspected by our engineer and your attention is called to the following conditions noted and recommendations made by him;

"There is a small sag in the top of this dam at a point about 50 feet from its north end, caused, apparently, by a washout, which should be levelled up by gravel fill thoroughly compacted."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Yours very truly,

COUNTY COMMISSIONERS

By _____
Chairman

THE TUNXIS CLUB INCORPORATED
TOLLAND, MASSACHUSETTS

August 10, 1940

Office of the County Commissioners
County of Hampden
Springfield, Mass.

Gentlemen:

We had planned to repair the dam you mention in your letter of August 7 during the month of September, and will see that it is done at that time.

Very truly yours,

TUNXIS CLUB, INC.


Charles Sherwood, Mgr.

CS:H

"TEN THOUSAND ACRES FOR RECREATION"

PRESIDENT
CHARLES SHERWOOD
WATERTOWN, CONN.

TREASURER
FRANK H. DAVOL, JR.
STAMFORD, CONN.

TUNXIS ESTATES

TOLLAND, MASS.

September 2, 1941

Mr. T. J. Costello, Chairman
County Commissioners Office
Springfield, Massachusetts

Dear Sir:

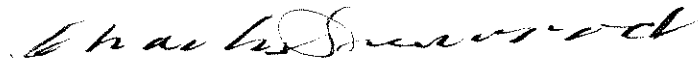
Replying to your letter of August 27th, wish to say that the washouts on the top of our dam No. 2 were repaired some time ago.

In regard to the disintegration in the log cribbing on its downstream side of the dam wish to say that there is only a little of this on the exterior of the logs which always happens, but, these logs are hemlock and perfectly sound.

Whenever your inspector is going to go over our property, we would appreciate advance information of his coming as I, personally, would like to meet him there, and get from him, first handed, just what repairs he wishes us to make.

Very truly yours,

TUNXIS ESTATES,



CS:v

Charles Sherwood

Tunxis H. F. O. Club

August 27, 1941

Tolland, Mass.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby notified that your No. 2 dam on Pond Brook in Tolland has been inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him.

"The top of this structure shows considerable settlement and has two washouts, one of which is of considerable size. It also shows some disintegration in the log cribbing on its downstream side, all of which should be repaired."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Yours very truly,

COUNTY COMMISSIONERS

By _____
Chairman

July 3, 1946

Robert S. Blair, President
Tunxis Estates
60 East 42nd St.
New York 17, N. Y.

Dear Sir:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that Trout Pond dam, so called, located on Pond Brook in Tolland has been inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him.

"In a recent inspection made of Trout Pond dam, located on Pond Brook in the Town of Tolland and owned by the Tunxis Estates, it was found that the water in the pond was within 5 inches of the top of the dam. This was caused by a fish screen across the spillway on which were accumulations of swamp grass, roots etc.

Fish screens placed on spillways, of earthen dams especially, are a menace to the safety of the structures, and should never be used, if safety is to be considered".

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Yours very truly,

COUNTY COMMISSIONERS

By Thos. J. Costello
Chairman

Charles W. Bray

Edward J. Stapleton

MEMBER
AM. SOC. C. E.
INST. C. E. GREAT BRITAIN
ENG. INST. OF CANADA

JAMES L. TIGHE

CONSULTING ENGINEER
CALEDONIAN BUILDING, 189 HIGH STREET
HOLYOKE, MASS.

TELEPHONE 5525

MEMBER AM. INST. OF CONSULTING ENGINEERS, INC.

MEMBER
BOSTON SOC. C. E.
ENG. SOC. WEST. MASS.
AM. & N. E. W. W. ASSOC'S

WATER SUPPLY
SEWERAGE
SEWAGE DISPOSAL
ANALYSIS OF WATER

July 3, 1946

WATER POWER INVESTIGATIONS
AND DEVELOPMENT
DAMS AND POWER INSTALLATIONS
ESTIMATES AND APPRAISALS

Hon. The Board of County Commissioners
Hampden County, Court House
Springfield, Mass.

Thomas J. Costello, Chairman,

Dear Sir:

In a recent inspection made of Trout Pond dam, located on Pond Brook in the Town of Tolland and owned by the Tuxis Estates, it was found that the water in the pond was within 5 inches of the top of the dam. This was caused by a fish screen across the spillway on which were accumulations of swamp grass, roots etc.

Fish screens placed on spillways of earthen dams especially, are a menace to the safety of the structures, and should never be used, if safety is to be considered.

Respectfully submitted,

James L. Tighe

BLAIR, CURTIS & HAYWARD

COUNSELLORS AT LAW

60 EAST 42ND STREET

LINCOLN BUILDING

NEW YORK

17

TELEPHONE MURRAY HILL 2 - 7171

WASHINGTON
438 MUNSEY BUILDING

CABLE
BLACURDUN
WESTERN UNION CODE

ROBERT S. BLAIR
EDWARD G. CURTIS
JOHN B. HAYWARD
JOHN W. THOMPSON
DANIEL L. MORRIS
EVERETT J. PECK
JOHN C. BLAIR
CHARLES C. LADD
TRUMAN S. SAFFORD
JOSEPH V. MEIGS
HAROLD L. STULTS
JAMES L. BLACK, JR.
ARTHUR V. SMITH
GORDON K. LISTER
BENTON W. BLAIR
M. M. HOLCOMBE

July 9, 1946

Office of the County Commissioners
Springfield, Massachusetts

Gentlemen:

I sincerely appreciate your very courteous notice of July 3 regarding the trout pond dam in Tolland. I didn't receive your letter until this morning, due to absence from town, but I know the matter was brought up last week and I think it has been taken care of. However I am writing the Managing Governor of the Tunxis Club today, forwarding a copy of your letter and if the job has not already been done, I know he will promptly take care of it.

Very truly yours,

Robert S. Blair

Robert S. Blair

RSB:vsh

Copy of this letter mailed to
Mr. James L. Tighe on July 10, 1946.

COPY

December 5, 1947

Robert S. Blair, President
Tunxis Estates
Hollow Tree Ridge Road
Darien, Connecticut

Dear Sir:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that Trout Pond dam, so called, located on Pond Brook in Tolland has been inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him:

"In a recent inspection made of Trout Pond dam, Located on Pond Brook in the Town of Tolland and owned by the Tunxis Estates, it was found that the dam was in a dilapidated condition and in need of major repairs. The wooden spillway has disintegrated and rotted, muskrats have burrowed through the dam causing leakage and the emergency surface overflow in natural ground south of the dam needs cleaning out.

Fish screens were in place across the spillway and these screens should be removed and not put back in place until the emergency overflow is repaired, cleaned out and properly graded."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Yours very truly,
COUNTY COMMISSIONERS

By Charles W. Bray
Chairman

William Dwight

Thomas F. Sullivan

August 25, 1948

Tunxis Club, Inc., Lessee
Tolland, Massachusetts

Attention: Lewis E. Tifft, President
225 Maple Street
Springfield, Massachusetts

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your Trout Pond Dam on Pond Brook in the Town of Tolland has been inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him:

"In a recent inspection made of Trout Pond Dam located on Pond Brook in the Town of Tolland and owned by Tunxis Club Inc., Lessee, it was found that the dam was in a dilapidated condition and in need of major repairs. The wooden spillway has disintegrated, rotted and clogged with tree stumps and debris so as to interfere with the free flow of water. The center spillway, of the box type, has partially collapsed and is in need of reconstruction.

The planking on the upstream face of the dam, due to its rotted condition, no longer stops muskrats from burrowing through the dam and the muskrat burrows are causing heavy concentrated leakage that may cause collapse of the structure.

Mr. Loomis, Treasurer of the Club, states that a contractor has been engaged to repair the structure. The work is of such a major nature that plans should be filed before the work is undertaken."

November 2, 1949

Pat. Francis J. McCarthy,
State Police,
Lee, Massachusetts.

Dear Sir:

Your letter of October 27, 1949
received.

The Hampden County Commissioners
have directed your letter for investigation to our
Hydraulic Engineer (Firm of Tighe & Bond of Holyoke,
Mass).

As soon as we receive information
from said Engineer, our office will forward said
information to you.

Very truly yours,

COUNTY COMMISSIONERS

By _____
Chairman.

TFS/N

August 25, 1948

Tunxis Club Inc., Lessee - 2

In view of the highly dangerous condition of the dam as revealed by this report, you are hereby ordered to make such alterations or repairs as recommended in said report. If you refuse or neglect to do so, the County Commissioners will take such further action as is required by law.

The Commission requests that we be advised not later than September 6, 1948 as to what action is proposed to be taken by you in compliance herewith.

Yours very truly,

COUNTY COMMISSIONERS

Charles W. Bray

Chairman

William Dwight

Thomas F. Sullivan

JAMES L. TIGHE
PHILIP E. BOND

TELEPHONE
HOLYOKE 5525

TIGHE & BOND
CONSULTING ENGINEERS
189 HIGH STREET
HOLYOKE, MASSACHUSETTS

WATER SUPPLY
SEWERAGE
SEWAGE DISPOSAL
WATER POWER
DAMS

December 7, 1948

The Hon. The Board of County Commissioners
Hampden County Court House
Springfield, Massachusetts

Charles W. Bray, Chairman

Gentlemen:

The Tunxis Club, Inc., Lessee, of
Tolland, Massachusetts, has repaired their dam
in accordance with your letter of August ~~24~~, 25
1948.

Substantial repairs have been made to
the dam. The wooden box spillway was completely
reconstructed with concrete and all other timber
work renewed. The muskrat burrows have been
filled in. The emergency channel of the swale
type has been cleaned out and put in working
condition.

Very truly yours,

TIGHE & BOND

By Philip E. Bond

TIFFT BROTHERS

HARTFORD, CONNECTICUT
NEW BRITAIN, CONNECTICUT
PITTSFIELD, MASSACHUSETTS

THIRD NATIONAL BANK BUILDING
SPRINGFIELD 3, MASSACHUSETTS

MEMBERS NEW YORK AND
BOSTON STOCK EXCHANGES
ASSOCIATE MEMBERS NEW YORK CURB EXCHANGE

September 8, 1948

Mr. Charles W. Bray, Chairman
County Commissioners
County of Hampden
Springfield, Mass.

Dear Sir:

We beg to acknowledge receipt of your letter
of August 25th for which we thank you.

We have made definite arrangements to have the
dam repaired in accordance with your letter, and we have
been assured that the work on repairing the dam will be
started on or before September 20th.

Yours very truly,

President
Tunxis Club, Inc.
Tolland, Mass.

LET:jr

Copy of this letter mailed to Mr. Bond,
County Hydraulic Engineer, on Sept. 10, 1948.



The Commonwealth of Massachusetts
Department of
Public Safety

October 27, 1949
Lee, Mass

Dear Sir;

I am endeavoring to obtain some information from your office that may prove helpful to us in an investigation of a larceny that occurred in the town of Sandisfield the latter part of 1948. Stolen at the time was an 1800 lb valve, the type used in the construction of dams and waterworks we understand. We would appreciate it if you would check your records and advise us if a dam was built in the town of Tolland the latter part of 1948 or during the first half of 1949. We have been lead to believe that this valve has been used in Tolland but our information is very vague. We have no description of the valve other than its weight. If possible we would like to know when the dam was built in Tolland, its location and who the contractor was.

Thank you very much,

Francis J. McCarthy
Pat. Francis J. McCarthy
State Police
Lee, Massachusetts.

Tunes Club Dam
Tolland

JAMES L. TIGHE
PHILIP E. BOND

TELEPHONE
HOLYOKE 5525

TIGHE & BOND
CONSULTING ENGINEERS
189 HIGH STREET
HOLYOKE, MASSACHUSETTS

WATER SUPPLY
SEWERAGE
SEWAGE DISPOSAL
WATER POWER
DAMS

November 7, 1949

The Hon. The Board of County Comm'rs.
Hampden County Court House
Springfield, Mass.

Attn: Thomas F. Sullivan, Chm.

Re: Letter of October 26, 1949
Mass. Dept. of Public Safety
Your letter of Nov. 2, 1949

Gentlemen:

An examination of our records shows that reconstruction work was done on the following dam in Tolland, Massachusetts.

Name of Dam: Tunxis Club Inc.

Person to Contact: Lewis E. Tifft, President (1948)
225 Maple Street
Springfield, Mass.

Approximate Date of Work: October 1948

Contractor: Mr. Allen Clark, Tolland, Mass.

Records also show that spillway changes were recommended on the following dam:

Name of Dam: C. E. Deeming (Lost Wilderness Ranch)

Person to Contact: Owner - C. E. Deeming
Tolland, Mass.
P.O. address:-
New Boston, Massachusetts

Approximate Date of Work: Unknown for sure but
Sept. or later in 1948,
if any work was accomplished.


Contractor: Unknown

The annual inspection of the dams in the Tolland area will be made shortly and any new gates or valves noted.

Very truly yours,

TIGHE & BOND

By


G. H. McDonnell - for D. Bond
County Hydraulic Engineer

November 2, 1949

Tighe & Bond,
189 High Street,
Holyoke, Mass.

Attention: G.H.McDonnell

Dear Sir:

Enclosed herewith is copy of a letter
which is self-explanatory.

Will you kindly look into this matter
and advise this office as soon as possible of your
finding.

Very truly yours,

COUNTY COMMISSIONERS

By _____
Chairman.

TFS/N
Encl.

November 9, 1949

Pat. Francis J. McCarthy,
State Police,
Lee, Massachusetts.

Dear Sir:

Enclosed herewith is a copy of letter
which is self-explanatory.

The County Commissioners hope that the
information contained may prove to be helpful in
your investigation.

Very truly yours,

COUNTY COMMISSIONERS

By _____
Chairman.

TFS/N
Encl.

December 21, 1949

Tunxis Club, Inc., Lessee
Tolland, Mass.

Attn: Lewis E. Tifft, President
225 Maple Street
Springfield, Mass.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam No. 2 has been inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him:

"In a recent inspection made of your dam No. 2, that is the dam recently repaired and faced upstream with planking, it was found that the dam has been topped and some of the earth and gravel fill washed out. Plugged fish screens probably contributed to the topping of the dam. The screens should be kept clean and removed from the spillways from fall to after the heavy spring run-off. Gravel fill should be placed in the washed portion of the dam, particularly back of the wooden planking; the dry stone masonry on the front of the dam should be repaired where displaced, and the elevation of the top of the gravel fill raised as necessary to form a level surface along the length of the dam. The swale spillway on the west end of the dam should be cleaned and the brush removed."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Yours very truly,

COUNTY COMMISSIONERS

By Thomas F. Sullivan

Chairman

Charles W. Bray

William F. Stapleton

June 20, 1951

Tunxis Club, Incorporated
Tolland, Mass.
c/o Mr. Lewis E. Tifft
225 Maple Street
Springfield, Mass.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dams located on Noyes Pond and Trout Pond in Tolland have been recently inspected by our Engineer, and your attention is called to the following conditions noted and recommendations made by him:

1. Noyes Pond Dam: "There is a leak under the dam north of the main spillway. Water enters under the dam from 15 to 30 feet north of the main spillway and emerges through the stones of the northerly abutment of the spillway. There is also a small leak under the emergency overflow spillway. These leaks should be investigated and plugged. The use of rip rap in front of and over the areas to be repaired may prevent scouring by wave action."
2. Trout Pond Dam: "Holes adjacent to the log construction at the upstream face of the dam should be filled with gravel. Leakage through the dam east of the spillway should be investigated and plugged. The swale spillway should be cleaned."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Very truly yours,

COUNTY COMMISSIONERS

By _____
Chairman

August 6, 1952

Tunxis Club, Inc.
Tolland, Mass.
c/o Mr. Louis E. Tiffet
225 Maple Street
Springfield, Mass.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam located at Trout Pond in Tolland has been recently inspected by our Engineer, and your attention is called to the following conditions noted and recommendations made by him:

"There is one leak under the dam at the base, at a point about 35 feet north of the small spillway. A very small quantity of fine material has been washed through and is deposited in front of the dam. An examination of the pond bottom, made from the surface through the clear water, showed no definite sign of where the leak is entering the dam. It would be advisable for the owners to observe this leakage from time to time and if the quantity of flow increases, or additional fine material is washed out of the dam, the leak should be investigated and plugged."

Any further information concerning this matter which you may desire will be furnished by this office upon request.

Very truly yours,

COUNTY COMMISSIONERS

By _____

Chairman

*Trout Pond Dam
Tolland*

August 17, 1955

The Tunxis Club
Tolland
Mass.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45 et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dam located at Trout Pond has been recently inspected by our Engineer, and your attention is called to the following conditions noted and recommendations made by him:

"The dam should be cleared of all brush and scrub growth. The swale spillway should be cleaned out of debris and miscellaneous vegetation."

Will you kindly take steps to correct this situation by September 30th, 1955. Any further information concerning this matter which you may desire will be furnished by this office upon request. Our County Hydraulic Engineer will reinspect the dam following the completion of the repair work.

Very truly yours,

COUNTY COMMISSIONERS

By William F. Stapleton
Chairman

Ralph P. Walsh

Francis M. O'Keefe

Acting County
Commissioner

Sept. 18, 1957

Tunxis Club,
Tolland, Mass.

Gentlemen:

Inspections have been made of the various dams on your property by the County Hydraulic Engineer. In his report to this Board the County Hydraulic Engineer points out certain maintenance and repairs required at your various dams and also goes into detail regarding your old Trout Pond Dam. Based upon the report of the County Hydraulic Engineer the following work should be done at your dams.

1. Noyes Pond Dam. The emergency spillway at the left portion of the dam should be cleaned and cleared of all logs and miscellaneous debris, as well as all brush growth that clogs this emergency spillway and that will retard the passage of any flood flows.
2. New Trout Pond Dam. This is a small concrete masonry and earth dam located below Noyes Pond and upstream of the old Trout Pond. Compacted fill is needed at the back of each of the masonry abutment walls. This condition needs particular attention at the right end of the concrete section of the dam. Fish screens on this dam should be removed prior to the Fall rainy season and they should not be returned to the spillway of the dam until after the Spring rainy season. If it is desirable to maintain fish screens during all seasons of the year, the fish screens should be designed in such a way that they will not retard the flow of storm water runoff over the spillway.
3. Old Trout Pond Dam. Repairs are being made to this dam and an additional spillway is being constructed at the dam. According to Chapter 253, Sec. 44 of the General Law, a dam shall not be materially altered until plans and specifications of the proposed work have been filed with and approved by the County Commissioners of the County where it is situated. This dam suffered damage in the flood of August 1955. The structure is in need of additional spillway capacity. Based upon the report of our County Hydraulic Engineer, the added spillway now being constructed does not provide sufficient capacity for anticipated flood flows. Plans and specifications of the proposed construction should be filed and approved before any further work is carried on at this structure. If fish screens are to be placed in front of the various spillways, the fish screen design must be such that the screens will not interfere with the flow of storm water runoff. The fish screen

design should be filed for approval before any screens are placed in the spillways of this dam.

Any further information desired in connection with the above matters will be made available to you upon request.

Very truly yours

BOARD OF COUNTY COMMISSIONERS

By _____

TUNXIS ESTATES
TUNXIS CLUB, INCORPORATED

TOLLAND, MASS.

October 29, 1957

TUNXIS ESTATES
TUNXIS CLUB, INCORPORATED
P. O. Box 120
Hartford 1, Connecticut

County Commissioners
County of Hampden
37 Elm Street
Springfield, Mass.

Gentlemen:

This will acknowledge receipt of your letter of September 18, regarding the Noyes Pond Dam, the New Trout Pond Dam, and the Old Trout Pond Dam.

We appreciate having your recommendations and will comply with them as soon as possible.

You can be assured that if any further work is to be carried on at the Old Trout Pond Dam, we will file plans as you suggest.

Very truly yours

TUNXIS CLUB, INCORPORATED

By 
Elmer S. Watson, Secretary

ESW:L

cc Mr. Milton Glover
Mr. Erle Martin

Copy of this letter sent to George H. McDonnell, County
Hydraulic Engineer, Holyoke, Mass.

Oct. 8, 1958

Tunxis Club
Tolland, Mass.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45, et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your various dams located in Tolland, Mass. have been recently inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him.

"Noyes Pond Dam The concrete and stone masonry wall of the dam is becoming dilapidated and in a year or two will need masonry repairs. The sooner these repairs are made the less extensive the work will be and the cost to the owner will be at a minimum. The left spillway has been cleaned of brush and most of the debris as noted previously. The dam was found to be satisfactory for the time being.

New Trout Pond Dam The stop planks at this dam have been removed and no water is stored in the pond. Fish screens have also been removed from the spillway. The flow of the stream passes thru the dam in the open slot where the stop planks have been removed.

Compacted fill is needed behind the stone and concrete masonry abutment at the right of the spillway. Additional heavy stone fill should be placed on the downstream side of the concrete wall just to the left of the spillway. This fill should be raised to an elevation just below the top of the concrete wall.

Some of the conditions noted herein were reported a year ago. During the past 12 months, the owner has not taken any action in connection with these conditions. This dam has never been recommended for acceptance following its construction since there always has been some work to be done to complete the structure.

It is recommended that your Board direct that the owner of this dam comply with the recommendations within the next 90 days.

Tolland

BUCK & BUCK

ENGINEERS

650 MAIN STREET HARTFORD 3, CONNECTICUT

HENRY WOLCOTT BUCK
ROBINSON D. BUCK

OCTOBER 28, 1958

THE HONORABLE BOARD OF COUNTY COMMISSIONERS
COUNTY OF HAMPDEN
37 ELM STREET
SPRINGFIELD, MASSACHUSETTS

GENTLEMEN:

THE BOARD OF GOVERNORS OF THE TUNXIS CLUB, AT A RECENT MEETING, REQUESTED ME TO WRITE TO YOU IN REPLY TO YOUR LETTER OF OCTOBER 8TH. THE BOARD ALSO APPOINTED A COMMITTEE OF THREE, OF WHICH I AM ONE, TO FOLLOW THE REPAIR WORK NOW UNDER WAY AND TAKE APPROPRIATE ACTION ON THE ADDITIONAL ITEMS MENTIONED IN YOUR LETTER.

YOUR ENGINEER NOTES THAT THE NOYES POND DAM IS SATISFACTORY FOR THE TIME BEING. WE APPRECIATE HIS COMMENT ON THE MASONRY OF THIS DAM AND PLAN TO RE-POINT THIS MASONRY EITHER THIS FALL OR NEXT SPRING WHEN THE COMBINATION OF WEATHER AND WATER ELEVATION IS SATISFACTORY. WE ALSO PLAN TO SMOOTH OFF THE LEFT SPILLWAY SO THAT OUR TRACTOR AND CUTTER-BAR CAN OPERATE SATISFACTORILY, THUS MAKING CONTINUED MAINTENANCE OF THIS SPILLWAY BETTER AND EASIER THAN IT HAS BEEN. WE HOPE THIS ACTION MEETS WITH YOUR APPROVAL.

THE PLACING OF ADDED FILL BEHIND THE NEW TROUT POND DAM HAS BEEN STARTED. THIS IS BEING DONE BY THE CLUB'S CARETAKER WHO WE UNDERSTAND HAS RECEIVED INSTRUCTIONS FROM YOUR ENGINEER. COMPLETION OF THIS WORK WILL BE AS RAPID AS THE WEATHER ALLOWS. WE WILL BE GLAD TO NOTIFY YOU WHEN THIS IS READY FOR INSPECTION AND CONFIDENTLY EXPECT THIS BEFORE THE END OF NOVEMBER.

AT THE OLD TROUT POND DAM THE CARETAKER HAS BEEN INSTRUCTED TO CLEAR THE FALLEN TREES AND BRUSH FROM THE SWALE SPILLWAY. HE WILL ALSO MOVE THE BULLDOZER TO THE DAM ON COMPLETION OF WORK AT THE NEW TROUT POND DAM, ROUGH GRADING THE ROAD ON THE WAY, AND CLEANING THE SWALE SPILLWAY. I HAVE HAD THE DRAINAGE AREA AT THE DAM COMPUTED AND, WITH THE U. S. GEOLOGICAL SURVEY INFORMATION WHICH IS AVAILABLE FOR HUBBARD BROOK, HAVE HAD THE RUN-OFF AT THE OLD TROUT POND DAM SITE COMPUTED FOR FLOODS OF VARIOUS FREQUENCIES. WE WILL HAVE OUR CARETAKER MAKE MEASUREMENTS OF THE DAM SO THAT WE WILL HAVE THE DIMENSIONS OF THE EXISTING STRUCTURES. MAY I SUGGEST THAT WHEN THIS INFORMATION IS AT HAND A CONFERENCE WITH

BUCK & BUCK

ENGINEERS

TO THE HONORABLE BOARD OF COUNTY COMMISSIONERS
DATE OCTOBER 28, 1958

PAGE 2
COMM.

YOUR ENGINEER WOULD BE HELPFUL. IF YOU CONCUR AND I MAY HAVE YOUR ENGINEER'S ADDRESS, I WILL BE GLAD TO MAKE THE ARRANGEMENTS WITH HIM.

THE BRUSH AND DEBRIS HAS CAUSED US MUCH TROUBLE AND CONCERN. MUCH OF THIS IS THE WORK OF BEAVERS. THERE HAVE BEEN TIMES THIS FALL WHEN THE SPILLWAYS HAVE BEEN CLEANED ONE AFTERNOON AND DURING THE FOLLOWING NIGHT THE BEAVERS HAVE COMPLETELY RE-FILLED THE SPILLWAYS. WE BELIEVE THE BEAVERS MUST BE REMOVED AND PLAN TO DO ALL THAT WE LEGALLY CAN TOWARD THIS END. WE WOULD APPRECIATE ANY ADVICE OR ASSISTANCE WHICH YOUR HONORABLE BOARD CAN GIVE US.

I HOPE THE VARIOUS MEASURES OUTLINED ABOVE WILL PROVE A SATISFACTORY ANSWER TO YOUR LETTER OF OCTOBER 8, 1958. WE WILL KEEP YOU INFORMED OF OUR PROGRESS, OR IF MORE CONVENIENT, WILL KEEP YOUR ENGINEER SO INFORMED.

VERY TRULY YOURS,

Robinson D. Buck
ROBINSON D. BUCK

copy of this letter sent to George H. McDonnell,
County Hydraulic Engineer, on November 4, 1958.

CD Tolland
Nov. 5, 1958

Buck & Buck Engineers
650 Main Street
Hartford 3, Conn.

Att: Mr. Robinson D. Buck

Gentlemen:

Reference is made to your letter of Oct. 28, 1958 sent to the Board of County Commissioners at the Court House in Springfield, Mass. This letter has to do with needed maintenance, repairs and construction at the various dams of the Tunxis Club, as recommended by the undersigned to the County Commissioners, in a recent report.

In your letter you suggest that when you have certain field information at hand, a conference should be held between the County Hydraulic Engineer and representatives of the Tunxis Club regarding the proposed work.

The Board of County Commissioners have sent me a copy of your letter for action in connection with your suggestion.

The undersigned would be pleased to meet with you at a time and place convenient to you and the members of the Tunxis Club Committee designated to handle the matter of the dams.

Will you kindly let me know when you wish to confer and I will try to arrange my schedule to meet your wishes.

Very truly yours

GHM/cmb

George H. McDonnell
County Hydraulic Engr.

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON
TEL. JEFFERSON 3-3991

TIGHE & BOND
CONSULTING ENGINEERS
BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS

CIVIL, SANITARY AND
ELECTRICAL ENGINEERING
SUPERVISION OF CONSTRUCTION
AND OPERATION
INVESTIGATIONS, REPORTS,
PLANS AND SPECIFICATIONS

*Recd
Nov 7/58*


CD Tolland
Nov. 5, 1958

The Hon. the Board of County Commissioners
Hampden County Court House
37 Elm Street
Springfield, Mass.

Gentlemen:

In reference to the letter from Buck & Buck Engineers,
dated Oct. 28, 1958, in connection with the dams at the
Tunxis Club, in the Town of Tolland, enclosed please find
a communication that I have sent to Mr. Buck. The contents
of my communication are self explanatory.

Very truly yours


George H. McDonnell
County Hydraulic Engr.

enc.
GHM/cmb

THE TORRINGTON COMPANY

Hunter 2-4441

39 FIELD STREET • TORRINGTON, CONNECTICUT

November 18, 1958

Tigh & Bond
Holyoke
Massachusetts

Attention: Mr. George H. McDonnell
County Hydraulic Engineer

TUNXIS CLUB DAMS

Dear Sir:

Referring to your letter of November 5 to Mr. Robinson D. Buck of Buck & Buck, Hartford, Connecticut, and his letter of October 28 sent to the Board of County Commissioners at the courthouse in Springfield, I am writing to let you know that work on the repairs and maintenance of the dams has been started and that we expect to be in touch with you to set a mutually agreeable date for a conference. We wish to have the work checked by Mr. Buck before such a meeting, but unfortunately he has been and still is confined to bed with a virus pneumonia. I called his home last evening and have been informed that it will be two or three weeks, at least, before he will be able to check the work being done on the dams.

As a member of the committee serving with Mr. Buck on the repair and maintenance of the dams, I am writing to let you know that work is progressing but that we are unable to meet with you as early as originally planned, and trust that this delay will not cause you any inconvenience. We will contact you at the earliest possible moment in order that we may clear up the entire problem. We should be able to meet with you early in December.

Yours very truly,



Lewis C. Stone

LCS/pha

cc: Mr. Robinson D. Buck
Mr. Milton H. Glover

CD Tolland
Nov. 21, 1958

Torrington Co.
59 Field St.
Torrington, Conn.

Att: Mr. Louis C. Stone

Dear Mr. Stone:

I have your letter of November 18, 1958, pertaining to certain work at the dams of the Tunxis Club in Tolland, Mass. I am sorry to hear that Mr. Buck is ill and confined to bed. I hope that he will be up and around and feeling better shortly. I note in your letter that the work in connection with the repair and maintenance of the dams is progressing. I assume that the work that is going on is probably of a maintenance nature and in the nature of completing work at the new Little Trout Pond Dam.

It would seem wise to hold up any extensive permanent work at the large Trout Pond Dam until such time as we have had our conference and are all agreed upon the work that should be done in order to make this dam safe and to provide ample spillway capacity. If there is any doubt in your mind regarding the work now being done and the possible need for an inspection by the undersigned prior to when we will have our planned conference, I would be pleased to go to Tolland and meet with the foreman or person in charge of the work that is now going on to review what is being done.

I will arrange my schedule to meet with you at your convenience whenever Mr. Buck will be available early in December.

Very truly yours,

George H. McDonnell
County Hydraulic Engineer

GHM/f

GEORGE H. MC DONNELL

PHILIP W. SHERIDAN

EDWARD J. BAYON

TEL. JEFFERSON 3-3991

TIGHE & BOND
CONSULTING ENGINEERS
BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS

CIVIL, SANITARY AND
ELECTRICAL ENGINEERING
SUPERVISION OF CONSTRUCTION
AND OPERATION
INVESTIGATIONS, REPORTS,
PLANS AND SPECIFICATIONS


CD Tolland
Nov. 21, 1958

The Hon. the Board of County Commissioners
Hampden County Court House
Elm St.
Springfield, Mass.

Gentlemen:

Enclosed herewith for your information and file purposes, please find a copy of a communication in connection with the needed repairs to certain dams of the Tunxis Club in Tolland. Also enclosed is a copy of my letter of answer. The contents are self-explanatory.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/f

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

**TIGHE
& BOND**

CONSULTING ENGINEERS

CIVIL, SANITARY AND ELECTRICAL ENGINEERING
INVESTIGATIONS, REPORTS, PLANS AND SPECIFICATIONS
SUPERVISION OF CONSTRUCTION AND OPERATION

BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland

April 13, 1959

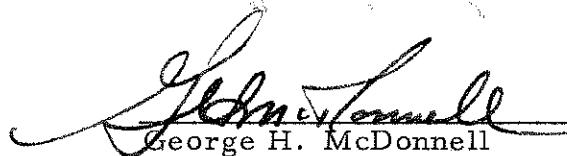
The Hon. the Board of County Commissioners
Hampden County Court House
37 Elm Street
Springfield, Mass.

Gentlemen:

Reference is made to the dams of the Tunxis Club in Tolland, Mass. and to your letters written to the Club pertaining to needed work, particularly at the Old Trout Pond Dam.

The undersigned met with Mr. Stone and other representatives at the site of the dams on Saturday morning, April 11, 1959. Enclosed please find a copy of a communication sent to Mr. Stone confirming our discussion on the day of the meeting. The contents of the letter are self-explanatory.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/mb

Enc.

CD Tolland
April 13, 1959

Tunxis Estates
Tunxis Club, Inc.
Tolland, Mass.

Att: Mr. Lewis C. Stone

Gentlemen:

This will confirm my conversation with you at the site of your Old Trout Pond Dam and the new small Trout Pond masonry dam on Saturday morning, April 11, 1959.

The small masonry dam is in good condition and work that has been completed in the recent past now provides fairly good protection for the structure from the danger of soil being washed out in front of each abutment area. The channel downstream of the masonry dam has been lined with fairly heavy stone. It would be advisable to continue the stone masonry training walls on each abutment area to prevent extreme high water from leaving the brook course and washing out natural soil downstream and in front of the left abutment and at the earth dike adjacent to the right abutment. The masonry walls would tend to train the overflowing water to remain within the natural channel of the stream.

In regard to the large dam at the Old Trout Pond, you pointed out that the fish screens formerly used in each spillway will be eliminated. Thus, the problem of debris continuously clogging these screens will be greatly reduced except for clogging that may result from beaver activity.

It is recommended that the beaver be controlled if possible and sufficient maintenance and inspection of the dam be provided so that there will be no chance of beaver dams being built up in front of the spillway chutes or the spillway around the end channel.

It was agreed that a leak under the wooden chute spillway near the center of the dam would be investigated and this leak controlled.

It is possible that the leakage results from water passing under the floor of the spillway chute. I doubt if a proper cutoff wall was constructed under this chute. It was probably laid directly on the top of the dam with sleepers extending the full length across the dam fill.

The need for additional spillway capacity was discussed and it was generally agreed that the top of the dam embankment between the two wooden spillway chutes would be paved with a suitable material, probably either plank or Type I asphaltic concrete so that when extreme storms cause water to flow over the embankment, there will be little danger of the fill of the embankment being washed out. In order to confine the flow to the spillway chutes and the area to be paved, the left end of the dam beyond the central chute spillway would be raised a foot or so by placing compacted fill on the dam. No problem would exist at the right end since this abutment is on and against natural rock ledge.

The schedule of the proposed improvements was not definitely determined. It was agreed that work would start after the ground dried out and it is possible to get personnel and equipment to the dam. Work will be carried on by Club personnel from time to time throughout the summer and all work in connection with improving the safety of this dam will be completed by late fall.

The undersigned will be pleased to assist you in any way by offering advice and engineering information in connection with the proposed improvements. Inspections will be made from time to time to determine the progress and the suitability of the work. If I can be of assistance to you, please do not hesitate to call upon me.

Very truly yours,

George H. McDonnell
County Hydraulic Engineer

GKM/mb

Oct. 26, 1960

Tunxis Club
C/o Mr. Lewis C. Stone
59 Field Street
Torrington, Conn.

Gentlemen:

In accordance with the provisions of Chapt. 253, Section 45, et seq., of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of dams of Hampden County, you are advised that your dam located on the old Trout Pond, in the Town of Tolland, has been recently inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him.

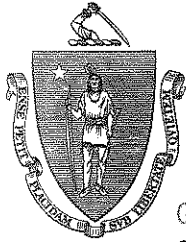
"This dam was found to be in good condition when last inspected. Leakage occurring thru the dam is negligible. All spillways were found to be free of any debris and were in good operating condition. The asphalt concrete on the surface of the dam is in fairly good shape. However, a few small holes have been formed adjacent to timber spillway structures. These holes in the asphalt should be repaired before they become larger. They can be repaired either with asphalt or it might be easier to repair them by filling the small cavities with a sand cement mixture that can be purchased in bags, brought to the site, mixed with water and set in place. By repairing these holes while they are small, more expensive and larger repairs that will be required in the future can be prevented. The swale spillway in the natural earth, to the right of the dam, should have the small voids that exist filled with rocks and packed earth. The log and debris material, as existing at the time of the last inspection should prevent any continued erosion of the channel bottom upstream toward the pond."

Any further information desired in connection with this matter will be made available to you upon request.

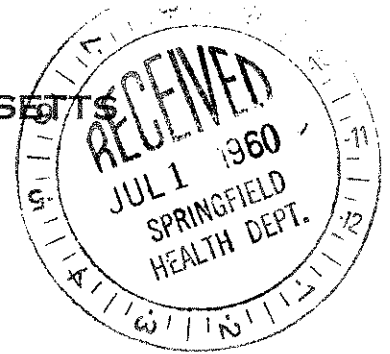
Very truly yours

BOARD OF COUNTY COMMISSIONERS

This letter received from Springfield
Health Dept - 1414 State St., Spfld
July 5, 1960.



THE COMMONWEALTH OF MASSACHUSETTS



Copy of this letter
sent to County **PUBLIC HEALTH**
Hydraulic Engineer

George H. McDonnell STATE HOUSE, BOSTON 33
on July 12, 1960. June 29, 1960

Mr. Lewis J. Powers
Powers Paper Company, Inc.
Springfield 7, Massachusetts

Re: TOLLAND
Trout Pond
Aquatic Weed Control
with 2,4-D Pellets

Dear Sir:

The Department of Public Health is in receipt of your application dated June 17, 1960, relative to the chemical control of nuisance aquatic vegetation in Trout Pond located in the town of Tolland.

A portion of Trout Pond consisting of 15 acres is to be treated with 100 pounds per acre of 2,4-D pellets to be applied by boat using a cyclone spreader. The total amount of chemicals to be used is 1500 pounds and is to be applied in 200-foot sections of Trout Pond located on the northeasterly shores.

The Department recommends that Trout Pond be closed to bathing, boating and fishing for at least three days following the last application of the chemical. The pond must be posted to effectively carry out the above restrictions. It is further recommended that the water level in Trout Pond be lowered by removal of the flash boards in the spillway before chemical treatment and replaced on the day of treatment so that the chemical will be held in the pond for at least three days following the treatment. Since the pond has been stocked by the Tolland Club under the supervision of the Division of Fisheries and Game, you should contact that Division to inform them of your plans to chemically treat Trout Pond.

Your application for the treatment of Trout Pond located in the town of Tolland has been reviewed and the Department is of the opinion that the treatment is appropriate, providing the chemicals will be applied in the manner and concentrations expressed therein and that the recommendations stated above are followed.

Very truly yours,

Worthen H. Taylor
Director
Division of Sanitary Engineering

C Board of Health, Tolland
County Health Department, Hampton
Division of Fisheries and Game
41 Tremont Street, Boston

C - Mr. Warren J. Scott, Director
Bureau of Sanitary Engineering
State Department of Health
State Office Building
Hartford 13, Connecticut

T/Ebt

THE COMMONWEALTH OF MASSACHUSETTS

Department of
PUBLIC HEALTH
State House, Boston 33

June 29, 1960

Mr. Lewis J. Powers
Powers Paper Company, Inc.
Springfield 7, Massachusetts

Re: TOLLAND
Trout Pond
Aquatic Weed Control
with 2,4-D Pellets

Dear Sir:

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The Department recommends that Trout Pond be closed to bathing, boating and fishing for at least three days following the last application of the chemical. The pond must be posted to effectively carry out the above restrictions. It is further recommended that the water level in Trout Pond be lowered by removal of the flash boards in the spillway before chemical treatment and replaced on the day of treatment so that the chemical will be held in the pond for at least three days following the treatment. Since the pond has been stocked by the Tunxis Club under the supervision of the Division of Fisheries and Game, you should contact that Division to inform them of your plans to chemically treat Trout Pond.

Your application for the treatment of Trout Pond located in the town of Tolland has been reviewed and the Department is of the opinion that the treatment is appropriate, providing the chemicals will be applied in the manner and concentrations expressed therein and that the recommendations stated above are followed.

Very truly yours,

Worthen H. Taylor

Director

Division of Sanitary Engineering

C Board of Health, Tolland
County Health Department, Hampden
Division of Fisheries and Game
41 Tremont Street, Boston

C - Mr. Warren J. Scott, Director
Bureau of Sanitary Engineering
State Department of Health
State Office Building
Hartford 13, Connecticut

T/Ebt

August 9, 1961

Tunxis Club
c/o Mr. Lewis C. Stone
59 Field Street
Torrington, Conn.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45, et seq., of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of dams of Hampden County, you are advised that your dam located on the old Trout Pond, as well as your dam known as the New Trout Pond, all located within the Town of Tolland, have been recently inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him.

" Tunxis Club New Trout Pond Dam. The masonry dam and its related abutments were found to be in satisfactory condition. There is some indication that movement of the stone fill and the concrete masonry cap on the right side of the dam, just downstream of the right abutment area has occurred in an outward and downward direction. This condition should be observed from time to time by maintenance personnel and any corrective action needed, should then be taken. "

" Tunxis Trout Pond Dam Brush in the spillway openings should be cleared and cleaned out. The hole at the left side of the swale spillway to the right of the dam should be prevented from enlargement by proper filling and grading with heavy material.

Boards at the right spillway in need of replacing should be removed and new boards nailed in place.

Holes in the asphalt paving on top of the earth embankment of the dam should be tightly plugged and sealed over with Type I material.

August 9, 1961

Mr. H. T. A. Richmond
17 Oriole Avenue
Bronxville 8, N. Y.

Dear Sir:

In accordance with the provisions of Chapter 253, Section 45, et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of dams of Hampden County, you are hereby advised that your dam, located in the Town of Tolland and forming Wards Pond, has been recently inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him.

"Three stop logs were found in the right spillway section at the time of the last inspection conducted on July 27, 1961. Two of these stop logs were removed by the undersigned. The left and central sections of the spillway were found to be blocked in part with beaver dam construction and the level of water in the pond was at a height above that normally observed. The Owner of the dam was not at the house adjacent to the dam on the day of the inspection.

It is recommended that the Owner be notified to keep the stop logs out of the side spillways and to also remove the beaver dam construction as often as it is noted to be present. Each day, when the Owner is at the site of his property, he should inspect the dam and any build-up of beaver dam construction should be torn down.

The cavity in the earth embankment at the left of the spillway still has not been repaired. It should be filled and the embankment properly shaped and graded.

It is recommended that in the future, following the Summer

August 15, 1962

Tunxis Club
c/o Mr. Lewis C. Stone
59 Field Street
Torrington, Conn.

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45, et seq., of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of dams of Hampden County, you are advised that your dam located on the old Trout Pond as well as your dam at Noyes Pond, all located within the Town of Tolland, have been recently inspected by our Engineer and your attention is called to the following conditions noted and recommendations made by him.

"Noyes Pond Dam Brush was noted growing from the masonry of the spillway section and this should be killed before the masonry is damaged by this growth. Leakage was noted in the masonry at the left side of the slide in which stop logs are placed in the spillway. This leak is not serious but should be checked from time to time and the condition corrected if the leakage increases to any great degree. In the not too distant future, the masonry of this dam will be in need of routine maintenance and service.

Tunxis Trout Pond Dam The hole to the left of the swale spillway at the right end of the dam has been partly filled in with logs and debris. This hole should be completely filled in and examined from time to time for any necessary refilling or maintenance.

Brush along the dam has been killed with what appears to be a chemical weed killer. The brush itself should be cut down and removed.

Any broken or rotten planks on the spillways of the dam should be replaced. It was noted that asphalt patching has been recently placed on the dam to fill in holes and worn areas. "

In view of the fact that the dam will be impounding a small amount of water, that the height of the dam is only about 5 feet, that all land adjacent to and downstream of the dam for some distance belongs to the Tunxis Club and also, in view of the fact that the stream discharges into the large trout pond downstream, the undersigned recommends to your Honorable Board that an Interlocutory Decree be issued giving the owner, the Tunxis Club of Tolland, approval for the construction of the small dam as planned by the Club.

Respectfully submitted,

George H. McDonnell
County Hydraulic Engineer

GHM/mbf

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

TIGHE & BOND

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BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
August 28, 1964

The Hon. the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

Reference is made to the dam in Tolland on Noyes Pond Brook and owned by the Tunxis Club, Inc., with the name of Milton Glover as petitioner and listed on the unfinished case list of dams.

On May 19, 1955, Milton Glover petitioned your Honorable Board for the approval of plans and specifications for the construction of a new dam on Tunxis Club, Inc. property. Plans and specifications for the dam were filed.


On July 13, 1955, your Honorable Board approved the plans and specifications in accordance with a report submitted by the undersigned.

Work on the dam was completed shortly thereafter in accordance with the filed plans and specifications. The dam has been in operation since its completion and has normally been found to be in satisfactory condition.

In my annual report on dams in the Town of Tolland dated October 25, 1963, under Paragraph G, it was pointed out that the dam was in good condition.

In view of the fact that this dam has been constructed in accordance with the filed plans and specifications and also since reports on the condition of the dam in recent years show that the structure is satisfactory, it is recommended that a final decree be issued accepting the structure.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/mb

September 29, 1965

Tunxis Club
Tolland, Massachusetts

Gentlemen:

The County Hydraulic Engineer has made an inspection of all dams on your property and in the presence of members of your Club, inspected the Trout Pond Dam. All dams were found to be in satisfactory condition and maintenance work was found to be necessary at only three of the structures. This maintenance work was discussed by the County Hydraulic Engineer with members of your Club and with your Grounds and Maintenance Supt.

At Noyes Pond Dam, there is a small leak thru the masonry structure of the dam near the right end of the dam and this should be taken care of.

Necessary maintenance work on Trout Pond Dam should be done and this includes the repairs to the asphalt surfacing on the top of the earth embankment.

At the small Trout Pond Dam adjacent to the roadway leading to the large Trout Pond Dam just discussed, the County Hydraulic Engineer found that there is a cavity that has formed in the stone fill to the right of the spillway. This cavity is underneath the concrete cap placed over the stone fill. Also, the stone fill in the concrete cap appears to have moved downstream and away from the concrete masonry of the spillway proper. The cavity should be plugged with a concrete grout and the space between the concrete cap and the downstream face of the spillway should also be filled with a grout poured into the opening.

If the outlined maintenance work listed hereinabove is accomplished during the coming year, all of your dams should be in good condition for the 1966 season.

If you have any question in connection with these matters, please contact our Board or the County Hydraulic Engineer.

Very truly yours,

BOARD OF COUNTY COMMISSIONERS

*Case # 245 A
1963*

CD Tolland
August 15, 1966

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

Reference is made to the small dam constructed by the Tunxis Club at the site of the old penstock dam on property of the Club in the Town of Tolland. The Club Officials had the new dam constructed at the site of the old dam being unaware of the fact that plans and specifications would be required since the new dam is not in exactly the location of the old dam nor is it the result of repairing the old breached dam. In 1963, on October 25, the undersigned reported the presence of the new dam. The quantity of water stored was estimated to be less than one million gallons and the height of the dam was stated as only about 5 feet. However, since the drainage area involved is somewhat in excess of one square mile, the undersigned was of the opinion that the structure should be processed thru the County though it had already been built and was in actual operation.

The dam itself is made up almost entirely of an earth embankment, somewhat rough in shape, but of fairly dense, well compacted material. The spillway consists of a concrete wall within the embankment and a notch in the wall to act as an overflow facility. The concrete overflow wall has been built with concrete sidewalls and abutment areas. The concrete masonry is sound in appearance and, from the description of the manner in which the foundation was built, the spillway masonry is located on ledge bottom. In fact, the wall of the spillway extends down to ledge for a distance of about 4 feet below the bed of the brook.

A follow-up inspection showed that the dam embankment is wide for its low height and that there was very little evidence of any seepage taking place thru the embankment material. Concrete masonry has been found to be standing up well and in excellent condition. An emergency swale spillway has been built around the embankment to the right of the dam.

In view of the fact that the dam will be impounding a small amount of water, that the height of the dam is only about 5 feet, that all land adjacent to and downstream of the dam for some distance belongs to the Tunxis Club and also, in view of the fact that the stream discharges into the large trout pond downstream, the undersigned recommends to your Honorable Board that an Interlocutory Decree be issued giving the owner, the Tunxis Club of Tolland, approval for the construction of the small dam as planned by the Club.

Respectfully submitted,

George H. McDonnell
County Hydraulic Engineer

GHM/mbf

CD Tolland
August 15, 1966

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

Reference is made to the small dam constructed by the Tunxis Club at the site of the old penstock dam on property of the Club in the Town of Tolland. The Club Officials had the new dam constructed at the site of the old dam being unaware of the fact that plans and specifications would be required since the new dam is not in exactly the location of the old dam nor is it the result of repairing the old breached dam. In 1963, on October 25, the undersigned reported the presence of the new dam. The quantity of water stored was estimated to be less than one million gallons and the height of the dam was stated as only about 5 feet. However, since the drainage area involved is somewhat in excess of one square mile, the undersigned was of the opinion that the structure should be processed thru the County though it had already been built and was in actual operation.

The dam itself is made up almost entirely of an earth embankment, somewhat rough in shape, but of fairly dense, well compacted material. The spillway consists of a concrete wall within the embankment and a notch in the wall to act as an overflow facility. The concrete overflow wall has been built with concrete sidewalls and abutment areas. The concrete masonry is sound in appearance and, from the description of the manner in which the foundation was built, the spillway masonry is located on ledge bottom. In fact, the wall of the spillway extends down to ledge for a distance of about 4 feet below the bed of the brook.

A follow-up inspection showed that the dam embankment is wide for its low height and that there was very little evidence of any seepage taking place thru the embankment material. Concrete masonry has been found to be standing up well and in excellent condition. An emergency swale spillway has been built around the embankment to the right of the dam.

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
October 31, 1967

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

Special inspections have been made of certain dams in the Town of Tolland and the report of these inspections is as follows:

A. Tunxis Club Trout Pond Dam

This dam is under reconstruction as the result of leakage through rotten and dilapidated planking. As of Friday, October 27, new tongue and groove planking has been set in place all along the upstream face of the dam.

An examination of the dam a few weeks ago after the Owner drained most of the water from the pond, showed that all planking below water level was in relatively good condition. Only the planking at water elevation and above was rotten and valueless. This rotten planking has been removed and the new planking has been attached to the sound planking. This has been accomplished by lowering the water level in storage as much as possible and then excavating the mud, silt and debris from the face of the dam to expose as much of the good planking as possible. The new planking has been spiked to the good planking and has been extended along the sloping face of the dam to an elevation equal to the top of the dam. The cut end of each plank has been sealed with an asphalt compound. Planks are tongue and groove and in each case, the tongue of one plank has been well set into the groove of the adjacent plank.

The two spillway chutes have been tied into the new planking in a very good and satisfactory manner. Workmanship has been such that there should be a minimum of leakage at the joint between the planking of the upstream wall and the planking of each spillway.

Washed-out areas of the dam embankment have been backfilled. As of the day of the inspection, the top of the embankment of the dam had not been covered with asphalt. The Owner plans to replace the asphaltic concrete forming the top of the embankment to prevent surface erosion.

The swale spillway around the right end of the dam had not been cleaned but the grounds-keeper at the Tunxis Club informed the undersigned that the contractor was bringing in equipment to thoroughly clean and properly shape the emergency swale, around-the-end type spillway.

The stop planks have been replaced in the drawdown facility at the dam and water was being stored at the time of my inspection. Conditions at the dam were satisfactory and in the opinion of the undersigned, the maintenance and repair work accomplished to date is of high quality and greatly increases the safety of the dam.

B. Connecticut Valley Girl Scout Council Dam (formerly Richmond Dam)

Work has been started on the reconstruction of this dam in accordance with plans and specifications filed with your Honorable Board. As of Friday, October 27, a portion of the new embankment fill had been placed at the base of the upstream portion of the enlarged embankment to the left of the old spillway site. The old spillway has been completely removed and water of the valley now drains through the dam in the old brook course.

The piling sub-contractor is cutting sheet piling to proper lengths and setting up the piling along the line of its location in preparation for driving. Piling work is being done at the right side of the dam.

The undersigned talked to the contractor on the project and he will inform me when they are ready for an inspection of form work and foundation work prior to pouring of any concrete.

As of Friday, October 27, work at this dam was going on in a satisfactory manner.

C. Chamonix Chalet Properties, Inc. Dam (Cranberry Pond)

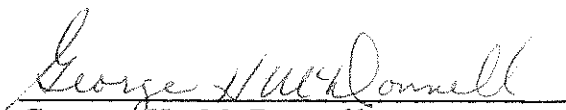
This dam, completed two years ago this Fall, has been inspected again to observe growth of turf on the downstream face and particularly on the side slopes of the emergency flood flow spillway. At the time of the last inspection, it was noted that turf growth was poor along the side slopes

of the emergency spillway and that an erosion gully had formed at the point where the downstream face of the embankment fill meets the face of the valley on the left side of the brook.

As of the inspection on October 27th, this gully has been filled with stones and surface water runoff no longer causes a problem of erosion. Grass growth on the downstream face of the dam is improving and a marked improvement was noted in the grass growth on the side slopes of the flood flow spillway.

Along the toe of the dam, no direct seepage was noted though the toe area was a bit soft and in locations was spongy. No movement of water was noted and it is possible that much of this condition could be the result of water coming from the side slopes of the valley just downstream of the dam. The condition will be observed in future inspections and, if the condition does become a problem, a recommendation will then be made regarding a sub-surface drain to lower water level in this portion of the embankment. In view of the fact that the toe of the dam should be observed for any further development of this wet condition and since turf growth will still need fertilizing and care, I am withholding any recommendation relative to acceptance of the dam at this time.

Respectfully submitted,


George H. McDonnell
County Hydraulic Engineer

GHM/mbf

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991


CD Tolland
November 1, 1967

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

Enclosed herewith, please find a copy of a letter sent to the Tunxis Club of Tolland relative to my inspection of their dam at Trout Pond on Friday afternoon, October 27, 1967. The contents of the letter are self-explanatory.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/mbf

Enclosure

CD Tolland
November 1, 1967

Tunxis Club
Tolland,
Massachusetts

Gentlemen:

An inspection of the repair and improvement work being done at Trout Pond Dam was made by the undersigned on Friday afternoon, October 27, 1967. Conditions at the dam were good. The planking as installed has been set in place in a workmanlike manner. A good joint has been made at the point where the upstream planking joins the planking of the two spillway flumes.

Voids in the dam embankment have been filled and the top of the dam has been leveled off so that no voids were visible. Provided the voids have been filled with well compacted earth, there should be no settlement of the surface of the dam. The top of the dam should be observed from time to time and if any settlement of the fill placed in the voids occurs, further fill should be compacted in place to care for any settlement.

The only work remaining to be done as of Friday afternoon, October 27, consisted of cleaning the swale spillway around the right end of the dam and stabilization of the top of the dam with asphalt or some similar material. When these two items of work have been completed, the dam should be in good condition and give a number of years of trouble-free service. Maintenance should be done periodically, particularly whenever any settlement is noted on the surface of the dam. With the type of structure involved, seepage can work its way into the fill of the embankment behind the planking and, when this does occur, fine grained soils are sometimes washed out through the crib work on the downstream side of the dam.

The recommended improvements to the top of the dam embankment and to the swale spillway should be scheduled for this coming Summer when the weather is dry and work can be accomplished in an efficient and workmanlike manner. "

The recommended repairs and maintenance at these two dams should be accomplished in 1968. Because of the present wet condition of the ground and the high rate of water runoff from the above two ponds, the recommended work cannot be done at this time. However, it is expected that your Club will accomplish the recommended work no later than August 1, 1968.

If you have any question in connection with this matter, please call or write our Board.

Very truly yours,

BOARD OF COUNTY COMMISSIONERS

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
April 2, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Re: Tunxis Club Dams
Tolland, Mass.

Gentlemen:

The undersigned has recently re-inspected certain dams of the Tunxis Club in Tolland, Mass. relative to recommendations made regarding repairs and maintenance needed at certain of the dams owned by the Club. In my report to your Honorable Board on the condition of dams in the Town of Tolland dated August 8, 1967, and in your letter to the Tunxis Club dated August 16, 1967, certain repairs and maintenance as required at Noyes Pond Dam, the new dam at the Penstock site, the new Trout Pond Dam and Tunxis Trout Pond Dam were listed.

The major repair work required was at the Tunxis Trout Pond Dam. This work was accomplished in 1967 and a letter-report to your Board dated November 1, 1967 pointed out that the dam had been repaired and was in good condition except for the fact that the swale spillway needed cleaning and asphalt or some similar material was required on the top of the dam. This work will be done by the Club during the present year.

Noyes Pond Dam

A re-inspection of the Noyes Pond Dam showed that there is a sink hole in new fill placed on the downstream side of the dam masonry wall just to the right of the spillway. This is probably caused by seepage. If an investigation indicates seepage is the cause of the sink hole, then packed earth should be placed against the surface of this small dam on the pond side of the masonry to seal the holes through which the seepage is travelling. The sink hole should then be filled in with well compacted sandy or gravelly earth.

April 3, 1968

Tunxis Club
Tolland, Massachusetts

Gentlemen:

An inspection has been recently made of certain dams owned and operated by your Club and a report on the condition of these dams has been submitted to our Board by the County Hydraulic Engineer. His report relative to the Noyes Pond Dam and the new dam at the Penstock site are presented hereinafter for your information.

"Noyes Pond Dam

A re-inspection of the Noyes Pond Dam showed that there is a sink hole in new fill placed on the downstream side of the dam masonry wall just to the right of the spillway. This is probably caused by seepage. If an investigation indicates seepage is the cause of the sink hole, then packed earth should be placed against the surface of this small dam on the pond side of the masonry to seal the holes through which the seepage is travelling. The sink hole should then be filled in with well compacted sandy or gravelly earth.

New Dam at Penstock Site

The concrete block retaining wall at the right of the spillway previously reported as in need of repairs and reconstruction has been rebuilt and is in good condition.

The top of the earth embankment of this dam needs to be brought up to a level grade with compacted earth and then a good growth of turf should be developed over the entire top of the embankment.

The swale spillway to the right of the embankment should be shaped and defined. The embankment side of this swale should be protected from erosion with either a masonry wall or a fieldstone wall.

-2-

Filling of these voids with compacted impervious soil will greatly reduce any infiltration and prevent an extension of settlement. Maintenance of this type carried on periodically throughout the year, will prevent the formation of any major cavities resulting from minor seepage.

Very truly yours,

George H. McDonnell
County Hydraulic Engineer

GHM/amd

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

***TIGHE
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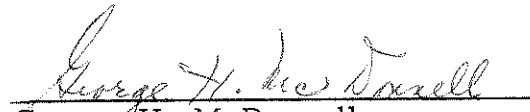
CD Tolland
July 25, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Gentlemen:

Enclosed for your files please find a copy of a communication sent to the Grounds Committee of the Tunxis Club regarding conditions as now existing at their dams. The contents of my letter are self-explanatory.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer X

GHM/amd
Encl.

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
July 25, 1968

Tunxis Club
Tolland, Massachusetts

Attn: Grounds Committee

Re: Condition of Dams

Gentlemen:

I have submitted my report to the Commissioners of Hampden County regarding the improvements and repairs made to your dams in Tolland. My report to the County Commissioners on each of the dams involved where repairs were required is as follows:

"Noyes Pond Dam

All repairs as recommended have been made. Improvements have been completed at the masonry wall, seepage has been controlled and downstream of the dam all areas showing any sign of settlement have been filled and graded with compacted earth.

New Dam at Penstock Site

This dam is now in very good condition. The owners have filled and graded the embankment of the dam, have seeded the surface of the embankment and a good growth of turf should develop during the year. Grass is growing very rapidly and from all appearances, it will be a thick and suitable growth.

Spillway improvements have been made and the concrete block retaining wall at the right of the spillway has been repaired.

TIGHE & BOND CONSULTING ENGINEERS

The swale spillway recommended to be constructed at the right end of the embankment had not been shaped and completed at the time of the inspection on July 15th. However, when the dam was re-inspected on July 23rd, it was found that the swale has been completed and the surface seeded. The swale is approximately 10 feet wide and the surface of the trough is about 10 inches above normal water level in the trout pond. Should an extreme flood flow occur the swale spillway will function along with the masonry spillway to pass the flood flow. The swale has been built on natural ground and thus any erosion caused by flood flows will be of no major proportion.

New Trout Pond Dam

This dam has received maintenance and the void noted previously under the concrete cap at the right side has apparently been filled by the placement of additional stones and boulders.

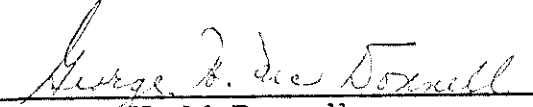
Trout Pond Dam

This is the dam where new wooden sheeting was placed during the past year and spillway conditions improved. The swale spillway to the right of the dam has been cleared of debris. On the day of inspection, July 15th, all water was passing through this swale. The owners have been advised that if they wish to raise the crest of the swale with an artificial timber or masonry wall they may do so, provided the raised crest does not exceed the elevation of the wooden chute spillways by more than a few inches. This will allow the regular overflow of water to pass through the chute spillways and emergency flood flows can pass through the swale as well as the chute spillways.

Some minor maintenance work is needed at the top of the dam to fill voids along both sides of the right hand wooden chute spillway and on the right side of the stoplog spillway. This has been pointed out to personnel at the Tunxis Club and the repairs will be made."

The Commissioners of Hampden County and the undersigned appreciate your cooperation in making the improvements and in doing the repairs to the various dams as recommended. If any problems develop at any of your dams, feel free to call upon the undersigned for any guidance or advice.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/amd

GEORGE H. McDONNELL
PHILIP W. SHERIDAN
EDWARD J. BAYON

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HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3991

CD Tolland
July 25, 1968

The Honorable the Board of County Commissioners
52 State Street
Springfield, Massachusetts

Re: Tunxis Club Dams
Tolland, Mass.

Gentlemen:

Reference is made to my letter-report to your Honorable Board of April 2, 1968, relative to three dams owned by the Tunxis Club and also to my report dated August 8, 1967 on all dams in Tolland, including each dam owned by the Tunxis Club.

The undersigned inspected those dams of the Tunxis Club in need of maintenance and repairs as pointed out in the above mentioned letter-reports on Monday, July 15, 1968. A re-inspection of one dam was made on Tuesday, July 23, 1968.

As of the present time all dams owned by the Tunxis Club are in good condition and only minor maintenance is needed at the large Trout Pond Dam.

Conditions noted at the recent inspections at the particular dams involved are as follows:

A. Noyes Pond Dam

All repairs as recommended have been made. Improvements have been completed at the masonry wall, seepage has been controlled and downstream of the dam all areas showing any sign of settlement have been filled and graded with compacted earth.

B. New Dam at Penstock Site

This dam is now in very good condition. The owners have filled and graded the embankment of the dam, have seeded the surface of the embankment and a good growth of turf should develop during the year. Grass is growing very rapidly and from all appearances it will be a thick and suitable growth.

Spillway improvements have been made and the concrete block retaining wall at the right of the spillway has been repaired.

The swale spillway recommended to be constructed at the right end of the embankment had not been shaped and completed at the time of the inspection on July 15th. However, when the dam was re-inspected on July 23rd, it was found that the swale has been completed and the surface seeded. The swale is approximately 10 feet wide and the surface of the trough is about 10 inches above normal water level in the trout pond. Should an extreme flood flow occur the swale spillway will function along with the masonry spillway to pass the flood flow. The swale has been built on natural ground and thus any erosion caused by flood flows will be of no major proportion.

C. New Trout Pond Dam

This dam has received maintenance and the void noted previously under the concrete cap at the right side has apparently been filled by the placement of additional stones and boulders.

D. Trout Pond Dam

This is the dam where new wooden sheeting was placed during the past year and spillway conditions improved. The swale spillway to the right of the dam has been cleared of debris. On the day of inspection, July 15th, all water was passing through this swale. The owners have been advised that if they wish to raise the crest of the swale with an artificial timber or masonry wall they may do so, provided the raised crest does not exceed the elevation of the wooden chute spillways by more than a few inches. This will allow the regular overflow of water to pass through the chute spillways and emergency flood flows can pass through the swale as well as the chute spillways.

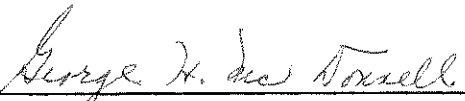
Some minor maintenance work is needed at the top of the dam to fill voids along both sides of the right hand wooden chute spillway and on the right side of the stoplog spillway. This has been pointed out to personnel at the Tunxis Club and the repairs will be made.


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In summary, conditions at the Tunxis Club dams are satisfactory. The owner of these dams has completed all recommended work well in advance of the required date. I have thanked the members of the Club for their co-operation in this matter.

Respectfully submitted,



George H. McDonnell
County Hydraulic Engineer 

GHM/amd

GEORGE H. McDONNELL
JOHN W. BURRIGAN
JOHN L. DAYTON

**TIGHE
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BOWERS AND PEQUOT STREETS
HOLYOKE, MASSACHUSETTS
TEL. JEFFERSON 3-3931

CD Tolland
March 17, 1969

Tunxis Club
Tolland,
Massachusetts

Gentlemen:

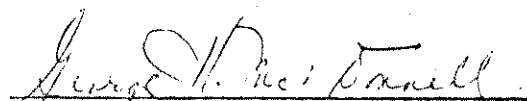
Reference is made to your dams in the Town of Tolland and particularly to the Noyes Pond Dam and the large Trout Pond Dam, and the fact that there now exists a heavy snow cover throughout Western Massachusetts. The water content of this snow cover, coupled with a warm spring rain could result in extremely heavy runoff conditions. Consequently, the Commissioners of Hampden County have directed that I advise you to be sure that the spillway facilities at your dams are clear of any obstruction and that you take all precautions necessary to protect your dam as well as persons and property downstream.

Stoplogs and flashboards should be removed from the spillway at each of your dams. Removal should be done under controlled conditions whereby water will not be released at a fast rate and thus cause flooding downstream.

To provide storage volume in the Noyes Pond and the large Trout Pond, it might be well to lower these two bodies of water below spillway crest elevation.

If you have any question in connection with this matter, the undersigned can be reached at the above address and telephone number.

Very truly yours,


George H. McDonnell
County Hydraulic Engineer

GHM/amd



Commonwealth of Massachusetts

County of Hampden

Springfield, Mass.

Office of the
County Commissioners
52 State Street

William F. Stapleton
Chairman

~~XXXXXX~~
Ralph H. Marsh

Floyd M. Fradet
Stephen A. Moynahan

October 1, 1969

Tunxis Club
Tolland
Massachusetts

Gentlemen:

In accordance with the provisions of Chapter 253, Section 45, et seq. of the General Laws, Tercentenary Edition, relative to the inspection, condition and safety of the dams of Hampden County, you are hereby advised that your dams in Tolland listed as follows, have been recently inspected by our Engineer and his comments and report in connection with these dams are as follows:

"Noyes Pond Dam On the day of inspection, water level in storage was at the top of the stoplogs in the control spillway. The upper log had been lifted slightly to release water between the bottom of the upper log and the top of the second log.

The stone and masonry wall extending along the top of this shallow earth embankment dam is deteriorating and should receive attention. Repairs should be made as necessary to prevent further deterioration of this wall.

The main spillway to the right of the stoplog structure is in satisfactory condition. It is clear of debris.

Hardly any seepage was noted downstream of the dam and the earth fill in front of the masonry portion of the dam was satisfactory.

In the opinion of the undersigned, this dam is safe, but does need maintenance and repair work as outlined."

"New Dam at Penstock Site The embankment of this dam, though rough in shape, is satisfactory. Turf growth on the top is fair to good. The downstream heavy rock fill is o.k. Water level in storage was noted to be just at the masonry crest of the concrete notch spillway.

The left section of the spillway notch was blocked with a stoplog on the day of inspection. The center and right sections of the spillway contained screens which were quite dirty and should be kept clean. There was no evidence that these screens had been cleaned recently.

The swale spillway at the right of the dam embankment was satisfactory. The entrance to the spillway should be kept clear of any high vegetation and debris.

The concrete spillway itself is satisfactory from a structural viewpoint. The toe area of the embankment, though wet, is satisfactory.

In the opinion of the undersigned, this dam is safe. However, the necessary maintenance work pointed out should be accomplished by the owner."

"Trout Pond Dam (above Big Trout Pond) The water level was at the crest of the spillway on the day of inspection. No stoplogs nor screen were in the side sections. A very dirty screen was in the center section. This screen should be removed since, in its present condition, it will decrease spillway capacity. The screen as existing, serves no useful purpose on the crest of the spillway.

At the left of the spillway, earth is being washed out from behind the overflow training wall adjacent to the access roadway.

The floor of the V-shaped section is broken and allows overflowing water to pass under the floor and the stone masonry wall. Repairs are needed to prevent this flow of water under the spillway section.

Embankment sections of the dam are in fairly good condition and are covered with a fair growth of grass. Toe areas were noted to be dry.

In the opinion of the undersigned, this dam is safe. However, the repair work as pointed out should be one at the left side of the spillway."

"Trout Pond Dam (large pond) The wooden spillway chute at about the center of the dam is in satisfactory condition. The embankment to the left of this central chute is in fair condition. However, the embankment top between the two wooden spillways is in need of attention. Breaks in the asphalt surfacing and at the left of the wooden bridge over the drawdown spillway should be properly repaired.

Stoplogs in the drawdown spillway were at normal height.

The right spillway chute has a leak to the right of the structure at the upper edge. Water is passing down thru the dam either under or beside this right hand spillway chute.

The swale spillway at the far right end of the dam was noted to be okay.

Asphalt surfacing repairs are needed on that portion of the embankment between the drawdown structure and the right spillway.

Though the dam is safe, the owners should do the required maintenance as pointed out herein. Failure to repair the dam could lead to additional deterioration and eventual loss of the structure."

The recommendations of the County Hydraulic Engineer must be followed in connection with needed maintenance and repairs at each of these four dams.

Any further information which you may desire in connection with these matters can be obtained from our office upon request.

Very truly yours,

BOARD OF COUNTY COMMISSIONERS



End of Book D19~ Dams ~ Tolland